

Twenty-Seventh Annual Report

OF THE

Board of Trustees

OF THE

Ohio State University

TO THE

GOVERNOR OF OHIO,

FOR THE

Year Ending June 30, 1897.

NORWALK, OHIO.

THE LANING PRINTING COMPANY

1897.

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1896-1897

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1896-1897

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Professor of History and Political Science, and of Constitutional Law—University Grounds.

ROSSER DANIEL BOHANNAN,
Professor of Mathematics—Sixteenth and Indianola avenues.

DAVID SIMONS KELLICOTT,
Professor of Zoology and Entomology—1332 Highland street.

C. NEWTON BROWN,
Professor of Civil Engineering—1343 Forsythe avenue.

ERNEST AUGUST EGGERS,
Professor of Germanic Languages and Literatures—University Grounds.

ALBERT MARTIN BLEILE,
Professor of Anatomy and Physiology—218 King avenue.

WILLIAM ASHBROOK KELLERMAN,
Professor of Botany—175 Eleventh avenue.

THOMAS FORSYTH HUNT,
Professor of Agriculture, and Dean of the College of Agriculture and Domestic Science—188 West Tenth avenue.

ARTHUR LYMAN WILLISTON,
Director of the Department of Industrial Arts—652 Franklin avenue.

GEORGE BEECHER KAUFFMAN,
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JOSEPH VILLIERS DENNEY,
Professor of Rhetoric and the English Language, and Secretary of the University Faculty—The Marion.

ALLEN CAMPBELL BARROWS,
Professor of English Literature—15th and Indianola avenues.

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Director of the Department of Clay-Working and Ceramics—The Normandie.

JOHN THOMAS MARTIN,
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18 Board of Trade.

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Associate Professor of Drawing—54 West Tenth avenue.

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Associate Professor of General Chemistry—University Grounds.

HENRY CURWIN LORD,
Director of the Emerson McMillin Observatory and Associate Professor of Astronomy—186 West Ninth avenue.

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Professor of Equity Jurisprudence and Law of Real Property—1320 Highland street; Court House.

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Lecturer on the Law of Negligence—43 Jefferson Avenue, Wyandotte Building.

JAMES HENRY COLLINS,
Lecturer on Federal Practice—57 Lexington avenue; Ruggery Building.

WILLIAM THOMAS SPEAR,
Lecturer on Circuit and Supreme Court Practice and Extraordinary Remedies—82 Hoffman
avenue; Supreme Court Room.

GEORGE WASHINGTON MCCOARD,
Assistant Professor of Mathematics—319 West Fifth avenue.

*WILBUR HENRY SIEBERT,
Assistant Professor of History.

ANNUAL REPORT

FRANCIS CARY CALDWELL,
Assistant Professor of Electrical Engineering—100 West Eighth avenue.

EMBURY ASBURY HITCHCOCK,
Assistant Professor of Experimental Engineering—1386 Neil avenue.

*CHARLES WALTER MESLOH,
Assistant Professor of German.

WILLIAM DAVID GIBBS,
Assistant Professor of Agriculture—Neil and Tenth avenues.

HERBERT JAMES NOYES,
Assistant Professor of Dairy Husbandry—Richland City, Wisconsin.

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Assistant Professor of Economics and Sociology—15th and Indianola avenues.

HERMAN VANDENBURG AMES,
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JAMES ELLSWORTH BOYD,
Assistant Professor of Physics—25 Maynard avenue.

*JOSEPH RUSSELL TAYLOR,
Assistant in Rhetoric.

CHARLES LINCOLN ARNOLD,
Assistant in Mathematics—239 West Tenth avenue.

CHARLES BRADFELD MORREY,
Assistant in Anatomy and Physiology—146 King avenue.

CLAIR ALBERT DYE,
Assistant in Pharmacy—169 King avenue.

THOMAS EWING FRENCH,
Assistant in Drawing—1458 Worthington street.

CHARLES WILLIAM WEICK,
Assistant in the Industrial Department and Foreman of the Carpenter and Pattern Shops—134 West Eighth avenue.

WILLIAM ABNER KNIGHT,
Assistant in the Industrial Department and Foreman of the Machine Shops—206 West Lane avenue.

HARRIET TOWNSHEND,
Assistant Librarian—53 West Eleventh avenue.

KARL DALE SWARTZEL,
Assistant in Mathematics—57 West Frambes avenue.

THOMAS KENYON LEWIS,
Assistant in Drawing—68 East Seventh avenue.

CHARLES A. BRUCE,
Assistant in French—234 West Tenth avenue.

JOHN ADAMS BOWNOCKER,
Assistant in Geology—Clark Place and High street.

EDWIN MEAD WILCOX,
Assistant in Botany—154 West Woodruff avenue.

FRANCIS LEROY LANDACKER,
Assistant in Zoology and Entomology—70 West Tenth avenue.

JAMES STEWART HINE,
Assistant in Entomology—117 King avenue.

HARRY MCFADDEN BALL,
Assistant in Veterinary Medicine—633 North High street.

WILLIAM FINLEY LAVERY,
Assistant in Veterinary Medicine—1700 Neil avenue.

MAUD DOROTHY JEFFREY,
Assistant Librarian—35 West Eleventh avenue

*Absent on leave, 1896-'97.

GERTRUDE STOWELL KELLICOTT,
Assistant Librarian—1332 Highland street.

FRANK HAAS,
Assistant in Metallurgy and Mineralogy—233 Eleventh avenue.

WILLIAM LLOYD EVANS,
First Assistant Director in the Department of Clay-Working and Ceramics—189 Jefferson avenue.

ARTHUR WINFRED HODGMAN,
Assistant in Greek and Latin—164 West Ninth avenue.

CHRISTOPHER ELIAS SHERMAN,
Assistant in Civil Engineering—244 Twentieth street.

BERTHOLD AUGUST EISENLOHR,
Assistant in German—103 West Eleventh avenue.

CHARLES CONRAAD SLEFFEL,
Assistant in Industrial Department and Foreman of the Forge Room—174 West First avenue.

ALBERT EARL VINSON,
Assistant in Agricultural Chemistry—Neil and Tenth avenues.

CHARLES WILLIAM FOULK,
Assistant in General Chemistry—41 Eleventh avenue.

WILLIAM LUCIUS GRAVES,
Assistant in Rhetoric—878 Dennison avenue.

CHARLES WILLIAM BURKETT,
Assistant in Agriculture—1556 Neil avenue.

WARREN KING MOOREHEAD,
Curator of the Archaeological Collection—1089 Madison avenue.

RAYMOND MOLLYNEAUX HUGHES,
Fellow, and Laboratory Assistant in General Chemistry—135 King avenue.

FREDERICK EDWARD KESTER,
Fellow, and Laboratory Assistant in Physics—1473 Neil avenue.

EDWIN F. CODDINGTON,
Emerson McMillin Fellow, and Assistant in Astronomy—169 Eleventh avenue.

ARLINGTON CORVILLE HARVEY,
Fellow, and Assistant in Rhetoric—King avenue and High street.

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W. R. BEATTIE.....	Gardener and Florist.
JAMES KELLY.....	Lawnkeeper.
PATRICK COTTINGHAM.....	Watchman.
RAYMOND JESSIE SEYMOUR.....	Guide.

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WASHINGTON TOWNSELL.....	Orton Hall.
F. B. BREWER.....	Chemical Hall.
JOHN E. ADAMS.....	Hayes Hall.
JOHN CONRAD.....	Horticultural Hall and Veterinary Hospital.
J. B. PARKER.....	Botanical Hall.
EDWARD D. STALTER.....	Observatory.
G. A. FLICKENGER.....	Chapel.

STATE GEOLOGIST.

PROFESSOR EDWARD ORTON.

STATE SEALER OF WEIGHTS AND MEASURES.

THE PROFESSOR OF PHYSICS, *Ex-Officio*.

Report of Trustees

COLUMBUS, O., June 30, 1897.

His Excellency, HON. ASA S. BUSHNELL, Governor of Ohio:

DEAR SIR: I have the honor to transmit herewith the twenty-seventh annual report of the Board of Trustees, Ohio State University.

Very respectfully,

Your obedient servant,

ALEXIS COPE, Secretary.

Report of Trustees.

OFFICE OF THE BOARD OF TRUSTEES,
OHIO STATE UNIVERSITY,
COLUMBUS, OHIO, June 30, 1897.

HON. ASA S. BUSHNELL, Governor of Ohio.

DEAR SIR: In compliance with law, the Board of Trustees respectfully submits the twenty-seventh annual report of the Ohio State University, it being for the year ending June 30, 1897.

ENDOWMENT.

The part of the irreducible debt of the state which forms the endowment of the University, was, at the date of the last annual report, June 30, 1896, \$549,203.23 upon which the annual interest was \$32,952.19.

Under the operations of the act of the General Assembly of March, 14, 1889, entitled, "An act to quiet title to unpatented lands in the Virginia Military District of Ohio" the following additions were made thereto:

Jan. 19, 1897, \$0.17; May 13, 1897, \$5.63; June 18, 1897, \$161.21; total \$167.01, making the endowment fund June 30, 1897, \$549,370.24, upon which the annual interest is \$32,962.21.

RECEIPTS AND DISBURSEMENTS.

The receipts from all sources and the disbursements for the year ending June 30, 1897, have been as follows:

RECEIPTS.

Balance in treasury June 30, 1896.....	\$513 96
Interest on endowment.....	32,952 23
State levy	118,906 53
Appropriation, act of Congress 1890.....	22,000 00
Student's fees.....	22,112 95
Certificates of indebtedness.....	148,072 25
Store room cards	2,198 67
Rents.....	1,346 50
Emerson McMillin Fellowship.....	300 00
Virginia military lands.....	26 00
Micellaneous receipts.....	580 04

\$349,009 13

DISBURSEMENTS.

Salaries	\$117,076 00
Expenses of trustees.....	731 89
Ordinary repairs.....	6,366 03
Fuel and light.....	5,014 37
Library.....	5,446 75
Printing and advertising.....	3,614 52
Virginia military lands	949 04
Roads and grounds.. ..	4,083 86
Apparatus, machinery, etc.....	12,176 50
Laboratory supplies.....	6,125 45
Bonds and interest.....	22,150 00
Townshend hall.....	31,537 38
Biological building.....	6,496 10
Armory and gymnasium.....	13 159 00
Improvement chapel.....	25,974 15
Boiler and power house	45,996 97
Library gallery.....	3,759 87
Addition botanical hall.....	2,568 98
Fitting dept. civil engineering.....	800 00
Changes university hall.....	500 00
Extension elec. lighting plant	1,200 00
Fire escapes dormitory.....	300 00
College of law.....	6,843 69
Office rent.....	111 90
Furniture.....	262 51
Water rents and charges.....	408 87
Postage.....	322 24
Telephone service.....	238 75
Commencement expenses.....	356 31
General supplies, cleaning material, etc.....	313 04
Freight, cartage, etc.....	532 56
Assistance, library.....	471 45
Clerical assistance, sec'y office.....	497 80
Clerical assistance, dept. agriculture.....	130 93
Extra assistance, president's office.....	114 86
Extra janitor work.....	177 29
Extra work care of heating plant.....	416 68
Guide and messenger service.....	293 61
Lubricating oils.....	243 77
Water meter and connection	184 54
Fire hose.....	123 75
Pipe cutting machine and dies.....	155 50
Stationery	168 22
Telegrams.....	34 25
Rent fire alarm boxes.....	43 00
Miscellaneous expenses.....	772 38
	<hr/>
	\$329,226 75

Balance June 30, 1897..... \$19,732 38

A detailed and itemized statement of such receipts and disbursements is given in the report of the treasurer, which is filed herewith.

NEW MORRILL FUND.

The following statement shows the receipts and disbursements for the year ending June 30, 1897, of the appropriations made by act of Congress approved August 13, 1890, and known as the "New Morrill Fund," and which are included in the preceding statement of the aggregate receipts and disbursements.

RECEIPTS.

Balance in treasury June 30, 1896.....	\$74 39	
Appropriation year ending June 30, 1897.....	22,000 00	
		<u>\$22,074 39</u>

DISBURSEMENTS.

For instruction and facilities in agriculture.....	\$2,960 76	
" " mechanic arts	10,742 50	
" " English language.....	827 11	
" " nat. or phys. science.....	5,430 41	
" " mathematical science	755 87	
" " economic science.....	503 80	
		<u>\$21,220 45</u>
Balance June 30, 1897.....		\$853 94

The law of Congress requires a detailed annual report of the receipts and disbursements of this fund, which report for the year ending June 30, 1897, is appended to the treasurer's report.

VIRGINIA MILITARY LANDS.

Up to June 30, 1896, the total receipts from the sale of the Virginia Military lands granted to the University by act of the General Assembly of March 26, 1872, were	\$65,142 66	
The receipts for year ending June 30, 1897	26 00	
		<u>\$65,168 66</u>
The expenses incidental to the survey and disposition of such lands to June 30, 1896, were	\$22,706 55	
Such expenses for year ending June 30, 1897, were.....	59 25	
		<u>\$22,765 80</u>
Leaving net cash receipts from this source		\$42,402 86
Of this sum there has been paid to the credit of the endowment fund.....	\$13,665 14	
And for building and maintaining residences, for the professors under the act of April 17, 1882	20,052 21	
		<u>\$33,717 35</u>
Leaving balance June 30, 1897.....		\$8,685 51

Said receipts and disbursements are also included in the preceding general statement of account for the year ending June 30, 1897.

Up to June 30, 1896, the additions to the endowment fund under the operations of the act of the General Assembly of March 14, 1889, entitled, "an act to quiet title to unpatented lands in the Virginia Military District in Ohio," the act of April 21, 1893 entitled, "an act for the relief of certain persons who formerly held lands in the Virginia Military District of Ohio," and an act amendatory of said last mentioned act passed May 21, 1894, were.....	\$11,361 79
During the year ending June 30, 1897, under the operations of said first mentioned act, there was added to said endowment fund.....	167 01

Making total additions to the endowment fund under said acts..... \$11,528 80

The suits mentioned in former reports growing out of a contract with the late Mr. Sam Kendrick, for the discovery of undiscovered lands in the Virginia Military District of Ohio, are still undisposed of.

BONDED INDEBTEDNESS.

On June 1, 1897, \$10,000 of the bonded indebtedness of the University was paid, leaving outstanding June 30, 1897, the sum of \$230,000; \$80,000 of which bears interest at six per cent. and \$150,000 at four and one-half per cent. per annum, payable semi-annually.

Said outstanding bonds are payable \$10,000 June 1, 1898; \$10,000 June 1, 1899; \$10,000 June 1, 1900; \$10,000 June 1, 1901; \$10,000 June 1, 1902; \$10,000 June 1, 1903; \$10,000 June 1, 1904; \$10,000 June 1, 1905; \$25,000 December 1, 1898; \$25,000 December 1, 1899; \$25,000 December 1, 1900; \$25,000 December 1, 1901; \$25,000 December 1, 1902; \$25,000 December 1, 1903.

On the 29th day of June, 1897, under authority conferred by the act of the General Assembly passed April 17, 1896, entitled "An act to authorize the board of trustees of the Ohio State University to issue certificates of indebtedness for certain purposes therein named," such purposes being the "erection of needed buildings and improvements and the securing of needed equipment"—notice was given of the sale of an additional \$100,000 certificates of indebtedness bearing interest at four and one-half per cent. per annum payable semi-annually; said certificates to be dated June 1, 1897, and to be payable \$20,000 December 1, 1899; \$20,000 December 1, 1900; \$20,000 December 1, 1901; \$20,000 December 1, 1902; \$20,000 December 1, 1903.*

This issue will swell the bonded indebtedness to \$330,000, on which the annual interest will be \$16,050.

Of the above mentioned certificates of indebtedness, \$250,000 are issued under the act of April 17, 1896, above mentioned, and \$80,000 under former similar acts. The funds realized therefrom have in all cases been strictly applied to the erection of needed buildings and improvements, and providing needed equipment as provided in the several acts, authorizing the issues.

*Said certificates were sold August 4, 1897, at a premium of \$4,310, which made them equivalent to a 3.41 bond.

THE POWER HEATING AND LIGHTING PLANT.

During the year ending June 30, 1897, the sum of \$45,996.97 has been expended in completing the power heating and lighting plant which was begun in 1892. The boiler house which was left half finished, because of insufficient means to complete it, has been completed, the old boiler house has been torn down and the battery of boilers therein has been removed to the new boiler house, and coal and ash handling machinery has been introduced. The plant now consists of three batteries of Babcock and Wilcox boilers of 300, 200 and 150 H. P. respectively, with an actual capacity of 750 H. P. Two of the batteries are fitted up with the Murphy smokeless furnace and the third with a chain grate furnace of the Babcock and Wilcox type. A new power house has been erected and fitted up with modern appliances including a traveling crane with a lifting power of eleven tons.

The equipment of the power house consists of a 200 H. P. Watertown steam condensing engine with a direct connected two phase 125 K. W. generator of the Westinghouse type, and a 65 H. P. McEwen engine and smaller belt connected generator for lighter loads. These machines furnish all the power and light needed in the various buildings and also the light for the campus.

The boiler house is large enough to accommodate additional boilers to the amount of 500 H. P. and there is space sufficient in the power house for all the additional engines and dynamos which will be required for a number of years.

The reservoir mentioned in the last annual report has been completed, and an ample supply of water is furnished from the wells sunk in the low ground west of the boiler house for boilers, condensing engine, and for fire protection for the buildings in that part of the campus. The reservoir is also used by the department of civil engineering for calibrating current meters.

The tunnel system has been extended, the total number of feet now being 4,100, and steam, water and gas pipes and electric power and light wires are now carried therein to all the principal buildings.

The plant is now practically complete and is a model in every respect. The plan originated with Mr. W. C. McCracken, the engineer in charge, who superintended every detail of its construction and is entitled to the chief credit for its successful installation.

ENLARGEMENT OF CHAPEL.

In the last annual report mention was made of the award June 16, 1896, of a contract for enlarging the old chapel by extending the central wing of the main building northward forty feet, thus securing a room 94x65 feet, which with a gallery would accommodate from twelve hundred to fifteen hundred people, and at the same time provide twelve additional class rooms.

This improvement was completed about January 1, 1897, and the auditorium and class rooms provided with the necessary equipment at a total cost of \$25,974.15. No recent improvement has added so much to the general comfort and convenience of the University. The auditorium is tasteful, commodious and ample for all ordinary occasions.

LIBRARY IMPROVEMENT.

The improvement of the Library by constructing a gallery around its four sides was completed during the year, and additional cases, shelving and furniture were provided, all at a cost of \$3,759.87.

ADDITION TO BOTANICAL HALL.

The addition to Botanical Hall has also been completed at a cost of \$2,568.98.

OTHER MINOR PERMANENT IMPROVEMENTS.

The other minor permanent improvements made during the year were fitting up rooms in Hayes Hall for the department of Civil Engineering at a cost of \$800; changing and refitting certain rooms in the main building at a cost of \$500; the erection of fire escapes at the larger dormitory at a cost of \$300, and the setting of lamp-posts and laying of circuits for arc and incandescent lights on the campus at an expense of \$1,200.

NEW BUILDINGS.

In the last annual report under the head of "other proposed improvements" it was stated that plans had been ordered for a building for the department of Agriculture to cost not exceeding \$85,000; for an Armory and Gymnasium to cost not exceeding \$60,000, and a building for the departments of Anatomy and Physiology and Zoology and Entomology to cost not to exceed \$30,000.

The plans for these buildings were duly completed, approved as required by law and filed with the auditor of state on or about August 1, 1896. Due advertisement was made of the letting of the contracts and on the second day of September, 1896, the same were awarded to the Columbus Construction Co., they being the lowest bidders at prices as follows: The building for the department of agriculture (now designated as Townshend Hall), for \$69,578; the Armory and Gymnasium for \$55,576, and the building for the department of Anatomy and Physiology and Zoology and Entomology (called the Biological Building), for \$28,564.

On or about the 8th day of September, 1896, the contracts were duly signed, approved by the attorney-general and filed with the auditor of state.

The contract for Townshend Hall provided that the excavation should be completed by September 21, the concrete and rubble stone work by October 3, the brick work by December 8, the galvanized iron work, copper and tile work by January 8, 1897, and the entire building by March 10, 1897, under a penalty of \$50 per day for each day the several classes of work above mentioned should be delayed beyond the time named for their completion.

The contract for the Armory and Gymnasium provided that the building should be completed by September 1, 1897, under a penalty of \$50 for each day's delay, and the contract for the Biological Building that it should be completed by August 1, 1897, under the same penalty.

Work was begun on Townshend Hall about the middle of September but was prosecuted so slowly that when the December estimate became due the contractors, they were thirty-five days behind the time specified in their contract for the completion of that part of the work then in hand, and under the advice of the attorney general the sum of \$1,750 was withheld from the estimate.

On February 12, the architects reported in writing to the trustees that the contractors were fifty days behind with their work on Townshend Hall and had practically abandoned it.

Thereupon notice was served upon them under section 792, revised statutes, requiring them to furnish the necessary materials and labor for properly carrying forward the work within the time specified in said section, or the trustees would apply to the governor, auditor of state and secretary of state for their written consent to supply the materials and labor themselves and charge the same to the contractors and their bondsmen.

Claim was made by the contractors that the architects had not allowed them full estimates for work done on the buildings, and it was agreed by all parties concerned that Professor C. N. Brown of the University should carefully measure the work done to see whether such claim had any foundation.

Professor Brown made the measurements and submitted the same, and it was found that they substantially agreed with those on which the estimates of the architects were based.

On February 17, 1897, the contractors appeared before the board of trustees in person and by attorney and submitted a proposition asking that they be released from their contract for the construction of Townshend Hall and that the work be readvertised. Said proposition was duly considered and declined and the contractors directed to proceed with their work.

On March 10, 1897, the contractors again appeared before the board and in a written communication signed by themselves and their sureties, asked for an extension of time for the completion of Townshend Hall to July 10, 1897, and offering, if such request were granted to waive all

legal and equitable objections and defenses they might have to their contract or bond, or any of the proceedings on which the same were based.

On the advice of the attorney-general, said request was granted, and the time for the completion of Townshend Hall was extended as requested.

The Trustees thereupon passed a resolution directing that the penalty of \$1,750, which had been withheld from the December estimate should be paid to said contractors on materials to be thereafter furnished. The contractors then made a show of resuming work.

On the 19th of April they appeared before the building committee and stated that on account of lack of means and inability to secure necessary advances they were obliged to discontinue, and had discontinued work on all the buildings, and asked the committee to employ certain persons named by them to superintend the completion of the work; said persons to receive for such superintendence seven and one-half per cent. of the actual cost of labor and materials and a salary of one hundred dollars per month while so employed, the trustees to assume and complete all the sub-contracts the contractors had made.

The building committee promptly rejected said proposition, but agreed to present it to the board of trustees at a meeting to be held April 21, 1897.

On April 21, the contractors appeared before the board and stated that they wished to withdraw the statements and proposition they had submitted to the building committee April 19. They also stated that they were to receive one-third the $7\frac{1}{2}$ per cent. of the cost of the labor and materials in case their proposition of April 19 had been accepted.

The trustees again served written notice on the contractors under section 792, of the revised statutes, to proceed with the work, but on the 22nd day of April, they entirely abandoned work on all the buildings and assumed to give to the Merchants and Manufacturers' National Bank of Columbus, a chattel mortgage covering all the unused materials on the grounds.

The trustees under provisions of the contracts authorizing them to do so, at once took possession of such materials and of the machinery, tools and appliances on and about the buildings, and on the 5th day of May, 1897, after due notice to the contractors, asked and obtained the written consent of the governor, auditor of state and secretary of state to proceed with the work on Townshend Hall in accordance with the provisions of section 792, of the Revised Statutes of Ohio.

Mr. H. E. Kennedey was then employed as general superintendent and work on said building was at once resumed.

At that time it was considered perhaps the wiser course to not attempt the completion of the other buildings during the present year, but later in the season the very low price of iron and other materials and the abundance of unemployed labor led to a change of view on the part of the board.

Accordingly on the 29th day of June, due notice having been given the contractors as required by law, it was ordered that application be made to the governor, auditor of state and secretary of state for their written consent to continue the work upon these buildings.

A fairly accurate description of the foregoing buildings, giving their size, dimensions of rooms, and the uses to which they are to be devoted, will be found in the catalogue which is attached to and made a part of this report.

THE PAGE WILL.

In former reports mention has been made of the will of the late Hon. Henry F. Page of Circleville, in which he devised certain farming lands in Ohio and Illinois (about 2000 acres), to the Ohio State University, subject to a life estate therein to his widow and only child, a daughter.

The will provides that in case of the testator's death within a year, and the consequent failure of the devise to the University, the estate, after the death of the widow and daughter, shall go to certain children of his two brothers.

By a subsequent provision of the will, the testator requests his daughter to ratify and confirm the devise to the University, and provides, in case she complies with such request, that the devise to the said children shall thereby be revoked.

Mr. Page died within a year from the making of the will and his daughter formally ratified and confirmed the devise to the University, and by deed duly executed, conveyed to it the lands so devised.

The daughter subsequently died and suit was filed both in Ohio and Illinois to set aside the deed of ratification and confirmation.

The case in Ohio was carried to the Supreme Court and was recently decided—the court holding that the deed of ratification, whether valid or invalid, revokes the devise to the said children and that they have no claim under the will.

The case in Illinois has not yet been tried.

CARE AND IMPROVEMENT OF THE CAMPUS.

During the year just closed the sum of \$4,083.86 has been expended in caring for and improving the Campus.

About \$1,800 was expended in building a coal road from High street to the boiler house, and about \$700 in completing the grading about Orton Hall and in extending the driveway in front of that building to a point just west of Botanical Hall. The coal road was constructed of broken limestone and the driveway in front of Orton Hall of crushed boulders.

The remainder of the sum expended was used in keeping the drives and walks in good order, in planting a few trees and in paying the landscape gardener, whose services were required in determining the location

of the new buildings and their proper grade lines and in fixing the grades of the improvements above mentioned.

What has already been done has greatly increased the natural beauty of the grounds, but much more will be required before they take on a finished appearance.

New walks between the buildings are very much needed and should be built as soon as the means can be provided.

The general plan of the grounds provides for a single driveway from High street instead of the two now in use, dividing a few hundred feet west of the entrance, one branch passing in front of the Armory and Gymnasium, Hayes Hall, Chemical Hall, University Hall and Townshend Hall, the other passing in front of the Biological Building, Orton Hall, Botanical Hall and meeting the other on the extension of Neil avenue.

This improvement contemplates the removal of at least one of the dwellings on the campus, and involves a larger expenditure than the present state of the funds will permit. If some public-spirited citizen would erect a handsome gateway for the main entrance, he would confer a lasting benefit on the University and build for himself an enduring monument.

SCHOLARSHIP IN CERAMICS.

The department of clayworking and ceramics which was established pursuant to an act of the legislature passed April 20, 1894, has attracted wide attention among those interested in those great industries, and has enlisted their hearty co-operation.

As evidence of their appreciation of what the department has already done and is doing, the National Brick Manufacturers' Association, through a committee appointed at one of its annual meetings, appeared before the board of trustees last April and submitted a proposition for the establishment of a scholarship in the department, agreeing to donate \$250 therefor, on the following conditions:

1. That \$200 of the sum named be paid to the student selected by said association as the recipient of the scholarship, to be used by him in defraying his necessary living expenses.
2. That the University should contribute \$100, which with the unexpended \$50 donated by the association, shall be reserved for paying the official expenses of the student in the way of fees, dues and supplies, and for material and apparatus needed by him in the prosecution of experimental work.
3. That one-half the time of the recipient of the scholarship should be at the direction of the Director of the Department of Ceramics, and the other half at the disposal of the student himself to be used in the prosecution of such studies in the University as he may select.

The proposition was promptly accepted by the trustees, the scholarship was established and the sum of \$100 was appropriated and added to the sum donated.

The committee on technical investigation of said association on June 13 and 14, 1897, held a competitive examination of applicants for such scholarship, and unanimously awarded it to Albert Victor Bleininger of Shawnee, Ohio, who is certified by the committee as having "the highest record in scholarship and the widest and best practical experience in the clay business."

COLLEGE OF LAW.

In the year 1890, a school of law was added to the various departments of the University, and the fees of its students were appropriated for its support.

Members of the bar generously volunteered to give the necessary instruction with no further compensation than the fees would afford, and the school was carried on on this basis until 1894.

In that year the general assembly passed an act authorizing the trustees to appropriate annually from the State University levy a sum not exceeding five thousand dollars, in addition to the fees above named, for the support of the school.

In pursuance of this provision the sum of fifteen hundred dollars, in addition to the fees, has since that time been annually expended in providing the necessary instruction.

When the school was organized it was expected to be self-supporting and it is gratifying to report the attendance so increased that the fees are now and from this time forward will probably be ample for its support without drawing upon other funds of the University.

THE LIBRARY.

The report of the Librarian for the year ending June 30, 1897, shows the number of volumes added during the year to be 2,375, making the total number in the library at that date 21,684.

Of the year's accessions 1,321 volumes were purchased, 521 volumes were secured by binding periodicals and 533 were gifts.

The approximate number of pamphlets in the library is 7,000.

DEGREES.

At the Commencement in June, 1897, on the recommendation of the Faculty, the following degrees were conferred.

DOCTOR OF SCIENCE

John Adams Bownocker, B. Sc.....Columbus

MASTER OF ARTS

Rufus Edwin Alspach, B. A. (Heidelberg).....Thornville
William Lucius Graves, B. A.....Columbus
Arlington Corylle Harvey, B. Ph Zanesville
Edwin D. Resler, B. A. (Otterbein).....Westerville

ANNUAL REPORT

MASTER OF SCIENCE

Edward Foster Coddington, C. E.....	Columbus
Raymond Mollyneaux Hughes, A. B.....	Oxford
Edward M. Van Harlingen, B. Sc.....	Columbus

MASTER OF SCIENCE (IN HORTICULTURE)

William Renwick Beattie, B. Sc. (In Horticulture).....	Columbus
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BACHELOR OF SCIENCE (IN AGRICULTURE)

Philip Baer, Jr.....	Canal Dover
Homer Charles Price	Newark
Ernest Scott.....	Columbus
Marley Rolin Shellabarger.....	Garland

BACHELOR OF SCIENCE (IN HORTICULTURE AND FORESTRY)

John Ferguson Cunningham.....	Urbana
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BACHELOR OF ARTS

Lucy Allen.....	Columbus
John Ezra Baker.....	St. Paris
Harriet Griswold Burr.....	Worthington
James Gray Carr.....	Coshocton
Adrian E. Davenport.....	Columbus
Mary Winifreda Edwards.....	Columbus
Marie Gogle.....	Columbus
Arthur Sullivant Hoffman.....	Columbus
Flora McCarter	Columbus
Walter Collins O'Kane.....	Columbus
Minona Schwier.....	Columbus
Pearl Valeria Taylor	Columbus
Frederick Lewis Turner.....	Columbus
Marion Evans Twiss.....	Columbus
Margaret Anna Uncles.....	Columbus
Annetta Curtis Walsh	Columbus
Paul Beilharz Yockey.....	Columbus

BACHELOR OF PHILOSOPHY—ENGLISH COURSE.

Edna Armstrong.....	Columbus
Dora Van Buren Burkett.....	Thornville
William Backus Guiteau.....	Toledo
Edward Lafayette Kellison.....	Quincy
Mabel Lisle.....	Columbus
Clara Esther Luse.....	Columbus
James Wesley Mays.....	South Point
Arthur Chase Nutt.....	Worcester, Mass.
Clara Gregory Orton.....	Columbus
Mary Baxter Porter.....	Columbus
Luzerne A. Richey.....	Boulder, Col.
Alice May Smith.....	Columbus
Walter Austin Snow.....	Austinburg
Burr Roscoe Wright.....	Peebles

BACHELOR OF PHILOSOPHY—LATIN COURSE

Anna Houston Blakiston.....	Columbus
Marrietta Charlotte Cole.....	Columbus
Florence Corner.....	Columbus
Jennie Centennial Davis.....	Columbus
Grace Eagleson.....	Columbus
Mona Fay.....	Ostrander
Bessie Bell Hammond.....	Columbus
Ruth Umstot Houseman.....	Columbus
Imogene Ingram.....	Columbus
Alice Belle Lentz.....	Loydsville
Annis McLaughlin.....	Columbus

BACHELOR OF PHILOSOPHY—MODERN LANGUAGE COURSE

Abby Slocomb Putnam.....	Columbus
Sherman Tecumseh Wiggins, LL. B. (Uni. of Mich.)	
LL. M.....	Columbus

BACHELOR OF SCIENCE

Albert Eliphalet Cotes.....	Springfield
John Mason Cratty.....	Bellaire
Melvin Dresbach.....	Columbus
Joseph William Tell Duvel.....	Wapakoneta
Walter Fischer.....	Columbus
Edward Lawrence Fullmer.....	Defiance
Harry Waldo Kuhn.....	Etna
Henry Curtis Moore.....	Washington C. H.
Lumina Cotton Riddle.....	Columbus
Edward Thompson Watson.....	Chillicothe

CIVIL ENGINEER

Edward Dunnick.....	Columbus
Herbert A. Rice.....	Columbus
John Murray Garber.....	Belleville
James Oscar Thomas.....	Columbus

MECHANICAL ENGINEER (IN ELECTRICAL ENGINEERING)

Edgar Sidney Aldrich.....	Columbus
James Albert Auld.....	Columbus
Eugene Charles Gee.....	Wheeling, W. Va.
Miner Barcus.....	Columbus
Albert Nathan Cope.....	Kingston, Mo.
Oscar Allen Davis.....	Alliance
Mark Harris Griffin.....	Toledo
Howard Sterling Riddle.....	Columbus
Gustave Hirsch.....	Columbus
George Martin.....	Fredericksburg
Arthur Leslie Buckman.....	Norwalk
Levi E. Jennings.....	Eaton
Charles Henry Kline.....	Dayton

MECHANICAL ENGINEER

Jerome Gorden Bower.....	Waynesburg, Pa.
John Herbert Fox.....	Lucas
Carson Wiley Damron.....	Gallipolis
Horace Judd.....	S. Hadley Falls, Mass.
William Francis Gallen.....	Columbus
Chadwick Humphreys Irvin.....	Columbus
Louis Martin Hartwick.....	Marietta
Robert Miller Lee.....	Columbus
Henry Allison Rowlee.....	Lorain

ENGINEER OF MINES

Thomas Jonathan Howells.....	Martino Ferry
William Alden Reed.....	Lowellville
Charles E. Schaup.....	Tiffin

BACHELOR OF SCIENCE (IN INDUSTRIAL ARTS)

Charles Milton Snider.....	Columbus
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BACHELOR OF LAWS.

George Edgar Bibbee, A. B. (<i>Ohio Wesleyan University</i>).....	Apple Grove
George Washington Bope.....	Pleasantville
Martin Luther Boyd.....	Columbus
Harry Frank Brand, B. Ph.....	Worthington
Hiram Sherman Bronson, B. L. (<i>Cornell University</i>).....	Columbus
William Frederick Genheimer.....	Portsmouth
Charles Thomas Herbert.....	Columbus
Charles H. Huston, B. S. (<i>Tri-State College, Ind.</i>).....	Mansfield
Benner Jones.....	Jackson
Clyde Hollingsworth Judkins, A. B. (<i>Scio College</i>).....	Flushing
Roy Everett Layton, A. B.....	Wapakoneta
George Ernest Luce, A. B. (<i>Ohio Wesleyan University</i>).....	Columbus
Gilbert Manecke.....	Fostoria
George Sidney Marshall, B. Ph.....	Corning
Samuel Galloway Osborne.....	Columbus
Edward Stanton Randolph, A. B. (<i>Ohio Wesleyan University</i>).....	Somerset
Ralph R. Rule, B. S. (<i>Tri-State College, Ind.</i>).....	Greenspring
Lowry Francis Sater, B. Ph.....	Sater
Robert J. Shank.....	Hamilton
Walter Von Steck Snyder.....	Allegheny, Penn.
Frank Marion Stevens.....	Elyria
Karl Thomas Webber.....	Columbus
Nevin Otto Winter, A. B. (<i>Ohio Wesleyan University</i>).....	Bucyrus

GRADUATE IN PHARMACY

George Washington Baughman.....	Leipsic
Joseph George Braun.....	Columbus
James Leonard Sutphen.....	Columbus
Alva Miller Cromley.....	Ashville
Don Carlos Huddleson.....	Columbus
Ernest Edwin Smith.....	Wooster

Arthur Kelton Lawrence	Columbus
Robert A. Magly.....	Columbus
George Henry Mebs	Columbus
Edward Henry Metzgar	Circleville
William Lisle Stump.....	Nashport

DOCTOR OF VETERINARY MEDICINE

James Grant Boyd	Columbus
Charles Horace Canfield.....	Akron
Henry Paul Miller.....	Sunbury

GIFTS DURING THE YEAR

The University has received by gift during the year the following additions to its museums and collections, for which it desires to make formal grateful acknowledgment.

ARCHÆOLOGY

Three hundred objects illustrating aboriginal life, presented by Mr. Moore through Dr. Orton.

Eleven hundred objects from the Cliff Dwellers' country of New Mexico, presented by Mr. Moorehead, the Archæologist.

ASTRONOMY

A copy of the Lick Lunar Atlas as far as published, presented by Professor Edward S. Holden.

Volumes of the publications of the Royal Observatory at Greenwich, presented by the Astronomer Royal of England.

Copies of the publications of Kew Observatory, presented by the Director of the Kew Observatory.

Publications of the Leander McCormick Observatory, presented by Professor Ormund Stone.

Contributions from the Observatory of Columbia College of New York, presented by Professor John K. Rees.

Additional Harvard Annals, presented by Professor E. C. Pickering.

The opportunity to purchase publications at the same price as that given to Fellows, granted by the Council of the Royal Astronomical Society.

A copy of Smythe's Celestial Cycle (the Bedford catalogue) presented by Mr. Rodney Gabriel.

Bulletins of the Yerkes Observatory, presented by S. E. Hale.

Vol. I. of Stellar Systems, presented by the author, Dr. T. J. J. See.

BOTANY

Four packages cerespudver, presented by J. L. Jensen, Copenhagen, Denmark.

Seventy-five fossil Dakota leaves, presented by Dr. S. W. Williston, State University, Kansas.

Seventy-five botanical specimens Ohio plants, presented by William Krebs, of Cleveland.

Fifty specimens of Ohio plants, presented by H. Jaske, St. Mary's Convent, Dayton, Ohio.

Twenty-five specimens of Ohio plants, presented by W. H. Aiken, College Hill, Ohio.

One hundred and fifty specimens of Ohio plants, presented by Albert Wetzstein, St. Mary's, Ohio.

CERAMICS

A cash donation of two hundred and fifty dollars for founding and maintaining a scholarship for the current year, by the National Brick Manufacturers' Association.

A re-pressing machine with two dies, presented by D. V. Purington, of Chicago, and J. H. Chambers, of Philadelphia.

A fine collection of enameled and embossed and painted tiles, by the Cambridge Tile Company, Covington, Kentucky.

CIVIL ENGINEERING

Samples of building materials, and quite a number of large framed photographs of engineering structures, presented by several friends of the department.

DRAWING

A complete set of drawings, specifications and instructions to bidders of United States Government building, recently erected at Youngstown, Ohio; presented by the United States Government.

A large number of duplicate plaster ornaments used in decorative features of the new Union Station at Columbus, Ohio; presented by the contractors erecting the Union Station; and from the architects, D. H. Burnham & Company, Chicago, permission to make a copy of the specifications of said station. These specifications are as complete and perfect a set as ever were prepared.

ELOCUTION AND ORATORY

Books presented to the Library through the department of Elocution and Oratory.

One set (23 volumes), Hudson's Shakespeare; Principles of Argumentation, George Pierce Baker; Public Speaking and Debate, G. J. Holyoake; Twelfth Night, Tragedy of Julius Caesar, Tragedy of Hamlet, As You Like It, Life of Henry V, Tragedy of Macbeth, Tragedy of King Richard II, all Shakespeare, A. D. Innes, ed; History of Oratory, Lorenzo Sears; Three Minute Declamation for College Men.

ELECTRICAL ENGINEERING

A number of telephone receivers and transmitters and one complete telephone set.

Nearly all the important Electrical journals (current periodicals).

GREEK

Forty volumes of Greek texts, presented by Professor A. C. Barrows.

LATIN

A considerable number of Latin texts, presented by Professor A. C. Barrows.

MECHANICAL ENGINEERING

No. 5 Water motor, presented by the Bishop & Babcock Company, Cleveland, Ohio.

No. 3 Drainage Centrifugal pump, from Joseph Edwards & Company, New York City.

Samples of ores, pig, billet, plate, skelp, tube and pipes, etc., used by the National Tube Works of McKeesport, Pennsylvania, in making their tubes and pipes.

A working model of the Buckeye Engine Company, Salem, Ohio.

A working model of spur gears cut on the Bilgrim gear planing machine, from Hugo Bilgram, Philadelphia.

Model of a Hancock Inspirator from the Hancock Inspirator Company, Boston.

Model of a wood pulley from Dodge Manufacturing Company, Mishawaka, Indiana.

Model of a metal pulley bushed with metaline, from the North America Metaline Company, Long Island City, New York.

MINE ENGINEERING

A complete set of samples of wire rope and copper cable with a fine case for them, presented by Mr. T. E. Hughes, agent of Washburn & Moen Manufacturing Company, Worcester, Mass.

A set of blue prints, copper mines and machinery and some photographs of Lake Superior Iron Mines, presented by Professor F. W. Sperr, Houghton School of Mines, Michigan.

A set of progressive photographs showing the progress of the construction of a steel Tipple, and a complete set of working plans of same Tipple, presented by Mr. Harry J. Lewis, Civil Engineer, Pittsburg, Pa.

A framed picture of the H. K. Porter Company's compressed air mine locomotive, presented by Mr. E. P. Lord of the H. K. Porter Company.

A complete set of plans of a Hocking Valley Coal Tipple, presented by Turney & Jones Company, Columbus, Ohio.

A Harrison mining machine used by Mr. Love in a mining contest at Sherrods-ville, Ohio, June 19, 1883. John Applegate and Joseph Hogan worked with miner's picks against this machine for a purse of fifty dollars. The machine mined 160 square feet and the men with picks mined 154 square feet. The time was three hours. Mr. Love won the contest and the Harrison Company gave him the machine. This machine Mr. Love now donates to the Mining Department of the University.

NUMBER OF STUDENTS

The number of students enrolled during the year was as follows:

College of Arts, Philosophy and Science, First Semester, 405; Second Semester, 340.

Other Colleges, Fall Term, 555; Winter Term, 427; Spring Term, 371. The whole number in attendance during the year as shown by the Catalogue, including those in attendance at the Summer school, was 1,019 as against 968 during the preceding year.

The numbers in the several departments and classes and the courses of instruction pursued, are shown in the report of the President, which is made a part of this report, and the catalogue.

THE FACULTY.

The changes in the Faculty since the last annual report are noted in the report of President.

The number of Professors in the Academic Faculties is 24; Associate Professors, 5; Assistant Professors, 10; Lecturers, 3; Assistants, 30; Fellows and Laboratory Assistants, 4; Librarians, 1; Curators, 1.

Their positions and compensation and that of the other employees are stated elsewhere in the report.

The Law Faculty consists of the Dean and eight Professors and one Lecturer.

EXPERIMENTS AND INVESTIGATIONS

Following is a summary of the experiment and investigations carried on during the last year in the College of Agriculture under the supervision of Professor Thos. F. Hunt, Dean of the College.

SOIL INVESTIGATIONS.

Growing plants consume large amounts of water, ordinary farm crops using from three hundred to five hundred pounds of water to produce one pound of dry substance. In view of the importance of the question of soil moisture to the farmer, the following experiments were conducted on the Ohio State University Farm by Assistant Professor W. D. Gibbs, and M. R. Shellabarger and J. Hayes Bone, senior students in agriculture. Mr. Shellabarger prepared the greater part of the data in the experiments on subsoiling and depth of plowing, and Mr. Bone made a large number of the moisture determinations in the fertilizer experiment on wheat ground.

Soil Moisture as influenced by,

1. Early and Late Spring Plowing.

Three plates, of first bottom corn ground, each 2.82 acres in area, were plowed at different dates as follows: No. 1, April 20th; No. 2, May 5th; No. 3, May 21st, 1897. Each plat was disked with a cutaway harrow and rolled with a tubular roller immediately after plowing. The three plates were planted to corn May 27th, and during the season all received the same cultivation. In fact, the conditions of the test were made as nearly alike as possible, except the time of plowing. The per cent. of moisture in the surface two feet of soil on each plat was determined April 20th, the date of plowing plat No. 1, and weekly thereafter until September 11th. Moisture was also determined each week in the three feet underlying the surface foot from June 12th to September 11th.

The average moisture content of the soil for each month during the season is greater in the early plowed plat, both in the two foot samples and in the samples from the three feet underlying the surface foot.

This experiment indicates that medium to early spring plowed ground will contain more moisture during the season than late plowed ground.

2. *Growing Crops.*

The drying effect which growing crops have on the soil is shown in the following experiments:

Oats: In the season of 1896 ten plats of ground were selected as being uniform in texture and fertility. One-half of each plat was sown to oats, while the other half remained fallow during the season, receiving only sufficient cultivation to prevent weeds from growing. The per cent. of moisture in the surface foot of both fallow ground and oat ground was determined daily from April 21st to July 23d. The average of the fallow plats for the entire period was 15.7 per cent. of water, while the same for the oat growing plats was only 14.5 per cent. During July, after the oats had made their growth, we find the greatest difference between oat and fallow plats. During this month the fallow plats averaged 16.0 per cent. of water, while the oat growing plats averaged only 11.2 per cent.

Rye: May 14th, 1896, the surface foot of rye ground (rye headed out) was found to contain 18.5 per cent. of water, while adjoining fallow ground contained 23.2 per cent. of water.

The above results with oats and with rye show clearly the drying effect of growing crops upon the soil, and at the same time point out an objection to following one crop with another, as rye with corn, since the first crop exhausts the soil of its moisture, not leaving a sufficient amount for the maximum development of the second crop. In an experiment of this kind during the dry season of 1895, fallow ground, planted to corn, yielded more than three times as much ear corn as adjoining rye ground.

3. *Fertilizers.*

Wheat: It is claimed by some that fertilizers increase crop production not only by adding to the store of plant food in the soil but also by acting on the physical structure of the soil, rendering it more retentive of moisture. The latter question was studied in the following experiment: Eight one-tenth acre plats which had grown six consecutive crops of wheat were selected. Two of these plats had received no fertilizer, while the others had been fertilized each year before seeding. The per cent. of moisture in the surface foot of soil on each plat was determined daily from October 1st to November 22d, 1895, and at intervals of two or three days from April 8th to May 19th, 1896. The greatest average amount of water was found in a plat which received no fertilizer whatever. The two plats receiving no fertilizer averaged 13.3 per cent. of water while the fertilized plats averaged only 12.85 per cent.

Oats: Ten one-tenth acre plats were used in this experiment. Fertilizers were applied and harrowed in before the oats were sown except in plat No. 10 where it was applied after sowing. Four plats received

no fertilizer whatever. Phosphoric acid, nitrogen (potassium and sodium nitrates) and stable manure were the fertilizers used. The per cent. of moisture in the surface foot of each plat was determined from April 21st to July 23d, 1896. Six fertilized plats averaged 14.6 per cent. of water while four plats not fertilized averaged 15.6 per cent.

In both the above experiments the average amount of water is slightly greater in the plats receiving no fertilizer. These experiments fail to show that fertilizers make the surface more moist. It may be mentioned also that the yields of grain were practically the same on fertilized and unfertilized plats.

4. *Subsoiling.*

Corn: This experiment was conducted during the summer of 1896. The field chosen for the experiment was a dark loam first bottom soil. A portion of the field was divided into six plats, each containing three-fifths of an acre. The plats were plowed as follows: Plats I and IV with the new Secretary plow, the disk cutting six to eight inches deep, with the subsoil shoe stirring the bottom of the furrow to the depth of four to six inches. Plats II and V with the John Deere New Deal plow followed in the furrow with the mole subsoil plow running about fifteen inches deep. Plats III and VI were plowed with the new Deal plow six inches deep. The per cent. of moisture in the surface foot of soil was determined on all plats from June 19th to September 26th. Plats I and IV, plowed with the Secretary plow, average 22.87 per cent. of water during the season; plats II and V, ordinary subsoiled, 21.90 per cent.; plats III and VI, not subsoiled, 21.67 per cent., showing but a slight difference in favor of the subsoiled plats. The summer was one of abundant rainfall and favorable for corn. The yield of both corn and stover was essentially the same on all plats. In this experiment nothing was gained by subsoiling.

6. *Depth of plowing.*

Wheat: A piece of ground which had grown a crop of oats was selected for this experiment. Plats were plowed ten, eight, six and four inches deep on September 15, 1896. Wheat was sowed September 25th. Moisture in the surface foot of soil was determined from September 17, 1896, to July 9, 1897. The average amount contained in each plat for the entire period was as follows: Plat plowed ten inches, 23.61 per cent.; eight inches, 23.06 per cent.; six inches, 22.45 per cent.; four inches, 21.59 per cent. Here again the largest amount of soil moisture is found in the deep plowed plats. The yield of grain is practically the same for all plats.

ESTIMATES

The following are the estimates for the year ending June 30, 1896.

Salaries.....	\$135,000
Expenses of trustees	600
Fuel and light	6,000
Repairs.....	6,000

Library	\$5,300
Printing and advertising.	2,500
Roads and grounds.....	2,000
Virginia Military Lands.....	500
Interest on bonds.....	13,800
Bonds due June 1, 1898.....	10,000
Department supplies and apparatus.....	35,000
Townshend Hall	53,350
Armory and Gymnasium.....	60,841
Biological Building.....	25,000
Equipment of Buildings.....	18,000

The report of the treasurer and the annual catalogue for the year ending June 30, 1897, are filed herewith and made a part of this report.

Respectfully submitted,

ALEXIS COPE,
Secretary.

Annual Report

To the Members of the Board of Trustees, Ohio State University :

GENTLEMEN: The general condition of the University for the past academic year has been that of intense activity upon the part of Faculty and students, little or no friction between them, and exceedingly gratifying results. The work of the Colleges has been the subject of constant study by all concerned, wherever desirable and possible changes have been made strengthening the courses and advancing the general standards, there has been more than usual harmony of thought and action between the instructors and students, and it has been frequently remarked that there has been far more than usual enthusiasm in all University undertakings. This is but the natural result of passing years, of increasing numbers, of better equipment, of more extended reputation, of more fixed precedents; in a word, of growth.

INCREASED ATTENDANCE

The catalogue shows that only four counties of Ohio were without representation this year; and that there has been an increased attendance from parts of the state that have hitherto seemed rather indifferent to this institution. The actual enrollment for the year was one thousand and fifty-two; though I have withdrawn from this the classes carried by Dr. Gordy in the city—thinking it best to put the report beyond cavil or criticism. Withdrawing the preparatory students from the last enrollment—as we have no such students this year—we find that the gain for the year has been more than sixteen per cent. As compared with the enrollment for 1894-95 the gain in the two years has been almost exactly twenty-five per cent. This would be unusual under any circumstances. When it is remembered that this increase comes in the face of the hard times, of increased requirements for admission, of dropping the preparatory work and relying entirely upon the High Schools of the state—in a word, of much that would naturally lead us to look for a *decrease* in attendance; it is very evident that the long and faithful service of our instructors, and the wise administration of past executives, are bearing full fruit.

THE CHANGES IN THE FACULTY

Have been few, and fortunately not such as to seriously cripple the work of the University. Judge Spear completed his course of lectures in the College of Law, to the great pleasure and satisfaction of the Faculty and students; and is followed by Judge Shauck, of the Supreme Court, who has very kindly consented to lecture this year upon Supreme Court practice and Special Cases. The courtesy and interest of the Judges of the Supreme bench, in work of this kind, is exceedingly gratifying and stimulating.

Assistant Professors Ames and Eisenlohr, both filling vacancies caused by leaves of absence granted in order that there might be opportunity for study abroad, withdrew because of the return of their principals—Assistant Professors Siebert and Mesloh. Both gentlemen serving the short term under these circumstances, acquitted themselves so thoroughly and so entirely to the satisfaction of the heads of their respective departments as well as to the students taking work with them, that we part with them with very sincere regret. Mr. Coddington, Fellow and assistant in Astronomy by the generosity of Mr. Emerson McMillin, withdrew to accept a better position in the Lick Observatory. The return of Assistant Professor Taylor, after a year of hard work at Columbia University under Professors Mathews and Woodbury, rendered necessary the withdrawal of Mr. Harvey, Fellow and assistant in Rhetoric.

The appointments for the year include Judge Shauck, to whom reference has already been made; Miss Perla G. Bowman, as Associate Professor of Domestic Science; and the usual and somewhat minor appointments of Fellows and laboratory assistants. Of Miss Bowman I may say that she is a graduate of the Toledo High School and of the Manual Training School of the same city—where she was distinguished for marked ability and originality; was a student at Wells College till her health would not permit further application of this nature; returned to Toledo, to become later an instructor and then one of the directors of the work for girls in the Toledo Manual Training school—in which she met with immediate and unusual success; and spent last fall and part of the winter as an advanced student of methods and equipment at Pratt Institute, Brooklyn—with special view to the work which she is to undertake with us.

The changes of title by which you have recognized satisfactory work have been the advance of Associate Professor McPherson to the full chair of Chemistry; of Assistant Professors Hitchcock and Caldwell to Associate Professorships; of Mr. Taylor from assistant in Rhetoric to Assistant Professor of Rhetoric and English Language; and of Mr. Hodgman from assistant in Greek and Latin to Assistant Professor of the Classic Languages. As these were all made upon my own recommendation and with my hearty endorsement no further comment upon this action is necessary.

It is fortunate indeed that our lines have not been broken by tempting offers from other institutions or from the outside world. Some attempts in this direction have been made, as they will doubtless be made every year, but without results. We ought to guard against change as far as possible. Length of service has peculiar value to the institution, if the instructor is fit to be here at all. It is no small satisfaction, of course, to be able to say that we once held in our ranks men who now are or hereafter will be occupying high places in the educational world; but it is an infinitely greater satisfaction to be able to keep these men in our own ranks.

THE TEACHER'S CHARACTER

In filling all vacancies as well as in appointing to new chairs, there is one principle that should always control. There is no longer very much question as to the training, the general and special preparation, of those who are under consideration for positions in a University of the reputation and standing of our own. No one who is not well up in his work will dare present his name, unless under grave misapprehension as to the position which he is seeking. And if one should so dare, it is comparatively easy to detect his unfitness, by inquiry of others or by conference with the applicant himself. But it is not so easy to secure instructors who have that last and most desirable touch of educational genius—those who not only know but can impart, who are not only themselves earnest and devoted but can inspire these qualities in others, who can express clearly the most abstruse propositions without at all departing from the most exact form of statement, who are easily masters not only of their specialties but of *men*. University authorities are only too apt to forget that the *man* is after all more desirable than the *specialist*, if choice must be made between the two; that a great heart is just as essential to true success in a University chair as is great learning. Youth, strength and happiness are the prevailing characteristics of the student body: and he who cannot meet these with youth and strength and happiness overflowing in his own nature is out of place as a teacher of youth. This does not mean that he is to be frivolous, or without true dignity; or that he must necessarily be an athlete; or that he may not show that he has known the shadow of a great sorrow. But he must be within touch of his students if he is to influence them and guide them and incite them, and he cannot get within touch if he has lost the capacity for enjoyment and the genuine warmth of sentiment which go with youth; or if he is worn with physical weakness and perpetually conscious of his own physical existence for other reasons than that of the pure joy of living; or if he is by nature petulant and peevish, or blinded by self-conceit, or jaundiced into morbid jealousy and suspicion, or nicotined into nervous pessimism. No University can afford to keep upon its instructional force one who is a chronic grumbler, whose

constant influence is repellant rather than impellant, who has little or no sympathy with young humanity; who cannot be blind to a great many things that he sees, and patient with a great many things that are exceedingly annoying, and interested in a great many things that after all are of small moment to himself. An instructor who cannot stand outside of himself and his department, on occasion and on many occasions, is a source of weakness to the institution, and is powerless where he ought to be powerful.

The key to all sound and lasting instruction is sound and wholesome life. It is the character of the instructor rather than what he teaches that affects the after life of the student; and this is largely true even in the strictly technical and professional courses. Said Arnold, "What I want (for a teacher) is a man who is a Christian and a gentleman, and one who has common sense and understands boys. * * * If one must give way, I prefer activity of mind and an interest in his work to high scholarship; for the one may be acquired far more easily than the other." Nor ought we to forget these golden words of Dean Stanley, referring to Arnold himself, "The lapse of years has only served to deepen in me the conviction that no gift can be more valuable than the recollection and inspiration of a great character working upon our own." The men and the women—and of the latter there ought to be more than we at present number*—brought into our Faculty, ought to be measured by these standards.

DEGREES CONFERRED

The degrees conferred at the last Commencement are as follows:

Doctor of Science, 1; Master of Arts, 4; Master of Science, 3; Master of Science in Horticulture, 1; Bachelor of Science in Agriculture, 4; Bachelor of Science in Horticulture and Forestry, 1; Bachelor of Arts, 17; Bachelor of Philosophy, 27; Bachelor of Science, 10; Civil Engineer, 4; Mechanical Engineer, 9; Mechanical Engineer in Electrical Engineering, 13; Engineer of Mines, 3; Bachelor of Science in Industrial Arts, 1; Bachelor of Laws, 23; Graduate in Pharmacy, 11; Doctor of Veterinary Medicine, 3.

*I desire to add a hearty "amen" to the sentiment expressed by a vigorous writer, quoted in the *Forum* for July, 1894, page 588. Herself a graduate of a co-educational institution, she writes: "I shall send my children to the school which most nearly approaches my ideal in this regard—the co-educational University. There is a vast difference in the desirability of these institutions as they at present exist. They all need more women on their faculties and must have them before they fully answer the needs of the times. It is not difficult now to find women who are the peers of most of the men in our college faculties; and I think that as college women we ought to insist that women shall be given positions in sufficient numbers to make the womanly influence felt throughout the universities. To this end women must have full standing—that is, full professorships—not subordinate positions."

"The university about which I know the most is not what it ought to be, and never can or will be this until there are woman teachers and professors who are regarded in every way the equals and entitled to the same respect and honor as the male professors."

"I do not believe that such immorality as now exists in our universities would exist if half the instruction, or a much less share than half, were given by women. I cannot express how deeply I feel upon this subject. Women should be on the Boards of Trustees or Regents, as well as men. They (the women instructors) should have men as well as women in their classes, and women should draw out the finest regard—affection even—in their classes from young men as well as from young women."

THE NEW CHAPEL

I take for granted that your own report to the Governor will set forth in detail the material improvements made possible by recent legislative action. I desire to mention one only: the completion of our Chapel. It is doubtful whether any expenditure since the establishment of the University has added more to the enjoyment, the comfort and the general well-being of both Faculty and students. The attendance upon the daily Chapel services, while not compulsory, has increased in numbers and in regularity. A course of weekly lectures was carried during the winter term, by the Faculty; closing with two by Col. Stanton, the explorer of the Grand Canon. Many of these were illustrated with views thrown upon the curtain by an electric lantern. These lectures were free to all who cared to attend; and both students and citizens were found in the audiences. We are under many obligations to those members of the Faculty who so willingly undertook this extra work; and to the State Historical Society and the Columbus Engineering Club, the members of which made Col. Stanton's lectures possible.

We also held our first indoor Commencement in this room. It was found entirely satisfactory for all exercises, and added much that was orderly and even stately to the closing scenes of the University year. The outspoken appreciation of all this, on the part of our Alumni and friends, and by citizens who were present, was gratifying in the extreme.

FURTHER APPROPRIATIONS

Under all the present conditions of the business world, I suppose I ought not to advise going to the Legislature this winter for special appropriations. Yet it is difficult not to do so, when one realizes the needs of the University and of its departments. It is true we now stand well in the lead in all respects, as far as our own state goes; and that we are in far better condition to minister to the wants of our students and our constituency than ever before. But our present revenues will scarcely meet our instructional and departmental demands, the number of our students is increasing with remarkable rapidity, and there are very serious material needs that are already pressing and will increase in importunity before another legislature can meet. We must soon provide a suitable library building. The room which we are now using is inadequate, and it is really needed by the department of Geology. The library is the very heart of university life and thought, and the heart must be strong and with full room for action. We ought to have a building that will accommodate not only the library itself but the historical and archaeological collections so kindly loaned by the State society; and besides give several large seminar rooms for the work of different departments.

We shall soon need also a building and equipment for Physics. Our buildings for Electrical Engineering and for Mechanical Engineering are entirely inadequate to the strain already put upon them. We ought to

have a new building for the College of Engineering, with a locomotive laboratory. This would give us the use of the present Mechanical Hall for Ceramics—a change demanded by both Ceramics and Geology. The College of Law ought to be properly housed as soon as possible. The College of Pharmacy ought to receive an appropriation for a like purpose (we would then be relieved of the necessity of enlarging the Chemical Building). All the buildings on the campus ought to be connected by broad cement walks, in order that students may go quickly and dry-shod from one piece of work to another. The entire campus should have a strong, iron fence, with suitable art-iron entrances. There ought to be a new athletic field. New buildings are needed at the farm, and there should be a residence upon the campus for the chief engineer. If the President is to be able to properly extend the courtesies of the State, of the University and of his own position, as well as reciprocate like courtesies shown himself, there ought to be a new executive residence. There is crying need of an organ in the new Chapel. These are the more important matters, all of which certainly must have attention within a very short time.

I know that to some who have not studied the situation these will seem like extravagant statements and demands. Without entering into any argument at present, I venture the prediction that within the next ten years all this and more will be realized, to the satisfaction and pride of the State and the well-being of its children, and therefore to its own advancement in all that means strength and true prosperity and renown.

The simple fact is that you can no more stop or "satisfy" the wants and needs of a growing University, one that is filled with true life and the true ideals of living, than you stop or "satisfy" the desires of an intelligent community or of a civilized man. Of course, there is a limit—as the saying goes—but it is the limit of intelligent demand and intelligent administration only. However, as we are not to ask anything this session, the entire question of future expenditures is one of statecraft and Trustee-craft, which need not be discussed here.

THE EDUCATION OF WOMEN

The world turns very slowly from its old-time precedents, and with a sometimes wise and very often pardonable conservatism holds fast that which at least seemed to be good. The Universities have not often gone faster than the people, indeed have quite as often followed as led. Even in this day and age, in which the University has so largely abandoned its earlier timidity and has left the cloister and the shadows of a life withdrawn from the world, and is in the market place and ready to serve in practice as well as to teach and learn in theory—even in this day, the University hesitates to declare with a certain large freedom and with the courage

that is born of deep conviction the results of its more profound studies: unless these happen to be of such a nature that they are of no very special interest to the uninitiated. The University will speak clearly and quickly as to a new alkaloid, but it is not quite so ready on questions of social science; it may be very positive that an angle cannot be tri-sected by elemental Geometry, but it will not be quite so sure as to one of the questions that touch the hearts of all men so closely as to deserve the adjective "burning;" it did valiant battle for years about the iota subscript of the Greek dative, but it hesitated a long, long time before it was ready to denounce the enslavement of four millions of human beings just outside its own walls. In all of which we must admit, first, that social science is necessarily somewhat less exact than any physical science and hence one may not speak quite as quickly or as positively in one as in the other; and, second, that the University was and is only human, that it simply has lived and still lives about the average life of its day. The disappointment is that we cannot quite put away the expectation that it will live far beyond the average life of its day.

So it happens that neither the world nor the Universities have as yet quite determined just what they will do for the education of women. True, both have long since been compelled to admit, though with much unwillingness, that women do deserve education, and can and will profit by education. And after a long effort to keep this education elementary or superficial, or both; or at least after long neglect of this elementary work;—both the world and the Universities, again quite against their will, have been compelled to give the entire question more decent regard and very generally to assert that the woman needs and ought to have as good an education as the man. In the more western states, where that liberty which always "reigns in the colonies" has had more complete recognition and fuller sway, there has even come what is known as co-education; and with it untold blessings to men as well as to women. But east of the Alleghenies there is little or none of this; and through all our society, even the most "advanced," there is still at heart a lingering feeling that we are not quite sure that a woman can properly use a collegiate training. The number of women who secure such training is still much smaller than the number of men, mothers cannot see that their daughters will be benefited by a severe course of mental discipline, there are many "social demands" that it seems quite impossible to put aside, "and after all, is not the bloom just a little off the peach when the women know so much."

CO-EDUCATION

It seems just a little strange that it is necessary to say even a passing word in favor of co-education. Yet Ohio is not one of the more western states, it still clings to the traditions of the past with exceedingly proper and exceedingly fond remembrance of the fathers, and socially it is in a

transition period the outcome of which is still to be determined. No one with even fair knowledge of the great heart of the state will be much in doubt as to that outcome, no one who recalls the part the state has played in the history of the country can question where it is to stand upon questions that so vitally affect not only its own future but the future of the race; yet it is not to accomplish this in a single bound, nor without a struggle. So it happens that even in Ohio there seems to be still some doubt as to the wisdom and propriety of co-education; and so it happens that the State University is almost the only institution of high standing in the state that offers co-education in the broadest and truest sense of the word.

It is noteworthy that the theory of co-education has been so generally accepted as settled and practically beyond dispute that the index of current literature for ten years contains not more than a dozen references to this question; and an examination of these shows but three or four articles of special length or value. No educator of high standing, well read in psychology or pedagogy, longer questions the fundamental propositions that women desire, deserve, appreciate, and are strengthened by higher education; that it is unquestionably to the advantage of the whole race and to their half of it that women have the best education attainable; that there is less nervous strain upon women under co-education and therefore better health and wiser and more natural physical conditions; that the great mass of those who have been co-educated believe in co-education and prefer it for their own children; that as men and women are intended for mutual service the best and most natural training is that in which they are trained together; that this inter-training and equal training takes the simper out of the young woman and the roughness out of the young men; that whatever faults in manner of association are seen are rather those of the community than of the system of education. Any one taking a counter position today would be considered first cousin to that German professor, who when he heard of the thousands of young women at work in American colleges and universities, independent in thought and life, exclaimed: "May God forgive Columbus for that he discovered that America."

UNIVERSITY CONSERVATISM

But with the acceptance of the education of women and of the higher education of women and of co-education, we have very generally gone to the other extreme—and insisted that women are to have education identical with that offered men—a theory and practice which is accountable for much that is strained and unnatural in the present social and economic relations of the sexes. The insistence with which this has been urged is partly due to a semi-chivalrous feeling that nothing is too good for our women, partly to the slowness with which the universities estab-

lish new curricula, and partly to the fact that Pedagogy is really a new science with us and the greater number of those engaged in instruction in American colleges and universities have little if any knowledge of its importance or its discoveries. It is unquestionably true that the average college or university faculty takes fewer educational journals, reads less in Pedagogy, and has more imperfect knowledge of the relative educational values of different subjects and courses than almost any other body of teachers in the land. Something of this is pardonable because of the great pressure upon the time and strength of the average American instructor. Then, too, the infinite amount of "stuff" that has been put out in the name of Pedagogy has much for which to answer in this connection. But the chief cause of this is the fact that the strong Faculties—and they are the only Faculties from which to expect advancement—are made up of specialists, who know their own work well and believe in it, as they ought; but who study it almost entirely from the standpoint of investigation and research as to its own essential conditions and characteristics; and little if at all from the standpoint of its relations to other work, or of its true place and value in its relations to the gradually unfolding mind of youth. It is quite safe to accept at nearly its face value the recent statement of the President of one of the strongest American Universities, that it would be quite unusual to find in any one Faculty more than three men who understand their own work from the point of its psychological and pedagogical relations to the student, or who had ever given this subject much thought. Indeed he said that this is so true that when a chair of Pedagogy was established in his own institution, and one of the most renowned authorities in this subject secured for this work, the lectures of the head of the new department upon the relative values of university studies were taken to be personal criticisms upon other members of the Faculty; these made common cause against the "interloper;" and it was a full year before the breach could be healed. It is not surprising therefore that the universities have moved slowly toward the establishment of rational and helpful and definite instruction for women.

DOMESTIC SCIENCE

It ought to be a source of pride and gratification to Ohio that its own University has so soon and so clearly and so definitely set itself along a higher and better way. As far as women are concerned, the main difficulty with the general courses in all Universities has been that for women the courses meant very little in after life. Of course, they tended directly towards general culture, and this has a priceless value. Ten years ago President Angell said in one of his annual reports, "The advantages derived from University courses have proved as helpful to women in their after lives as to men." In a certain sense this was and is true. Yet it has always been true that the University curriculum has a certain definite-

ness in it for men that it lacked almost wholly for women. In the technical courses, within which women have done but little thus far and can do but little, there is a very definite end in view. In the curricula of the older and minor colleges, and in the so-called liberal courses of the later Universities, there is for men the very clear thought and constant incentive that this work is the very best foundation, the almost necessary foundation, for the four great professions—the ministry, the law, medicine, and teaching. But for women these courses have generally stood for nothing but that rather intangible something called culture. The men received this culture, and something more; for the work was to go with them through life. The women knew that in only too many cases their after-life was to run counter to much further work and advancement. The men had received preparation for life, quite definite and direct; the women had received very incidental preparation, if any, for the lives that the greater number of them were to lead. For the one the University course meant added strength and specific preparation for future activity; for the other it meant general advancement in the development and control of faculties and powers, without the slightest recognition of the set that was inevitably to come to those faculties and powers.

For, complain about it though some rather foolish people may and do, the natural division of human labor, the most simple division, that which has always prevailed and from the inherent nature of things always must prevail, is that which recognizes that the strongest claims upon women are the duties and activities that center in the home. Man is naturally the breadwinner, and woman just as naturally the home-maker. Whether she perform her part by direct participation in daily household toil, or directs the work of others, this is the part—"the better part"—that is allotted her—except in the cases that though in a sense not rare are at once recognized as forming the exceptions to a natural and beneficent law. Yet little if any provision has been made for special preparation for this great work and this life-work, in any college or University of high standing in this country—nowhere in fact, except in some of the few special institutions that touch more nearly the line of the trades school than the work and atmosphere of the University. Even in the schools and colleges especially devoted to women there has been a woeful lack of intelligent appreciation and of definite and high grade instruction in this direction; and the young women whose names appear in these catalogues have been drawn to these institutions by other reasons than that preparation for life-work is given a distinct and honored place in the curriculum.

The Ohio State University has prepared a course in Domestic Science which is believed to be unique in form and of inestimable value along the lines just mentioned. It combines broad and generous training, general culture, with special preparation for the probable work of life.

It does not turn away from literature, but it expresses its belief in the value of pure foods; it remembers the languages, but it also remembers that which is too often forgotten—the effect of skilled cooking upon the digestibility of food; it recognizes the place and power of mathematics, but it has a word also for art in the household, and decorative science; it would have the young woman know much of history, especially that of her own country, but it would have her know as well something of general sanitation, water-supply, disinfection, light, heat, ventilation. She ought to be instructed in the elements, at least, of economics; but she certainly ought to know something of first aid for the injured, and of general nursing. The humanities may well claim her attention, but she is to stand in peculiarly close relations to human beings, whose health and strength and comfort will depend largely upon her intelligence and special training. She will be given a general view of some of the sciences, but she will also be instructed in hygienic and artistic dress. In a word, while not losing sight for a moment of all that can be reasonably asked in the line of higher education, as that term is generally used and accepted, the University takes the position for every form of domestic art which was well outlined for the art of cookery, by a bright writer in a recent number of a well known magazine: "Surely the ability to detect with appreciation the subtle blending of an exquisite sauce, or the flavor of a salad, or the power of making a harmonious composition of companionable savors in a single meal, is as distinctly a result and test of culture as the appreciation of the eye in painting, or the ear in music; while the ability to set forth a suave and delicate dish as the product of one's own skill possibly contributes as much to the sum of good in the world as a moderately bad translation of a German pessimist, or even a new manifestation in philanthropic possibilities. Supposing for a moment that the coming century were to have in it the seeds of a new Carlyle; it might be considered a service to mankind if some college woman could contrive to give us the philosopher without the dyspepsia."

Those who consider the purpose of the University to be the establishment of a "cooking school," and our friends the enemy who out of the depth of their ignorance talk about "kitchen mechanics" and "teapot engineers," are about as far from the truth as they could either wander alone or travel by most modern conveyance. There is no course offered young women in this University that makes more strongly or directly for broad general culture than does this. There is every reason to believe that it will become one of the most popular courses in the institution. It will be modified, doubtless, as we gain experience in a somewhat untried field; but it will remain substantially as it is at present as to all fundamental theories and practice. The requirements to enter are practically the results of a good High School training. The general University work covers Chemistry, Botany, Horticulture, Physiology, Floriculture, Economic Entomology and Hygiene and Physical Training—as

to the sciences. There is thorough drill in Rhetoric, in French or German, in English Literature, in Political Economy and in History. In the last year, two-thirds of the work is entirely elective, in any course or college in the University. There can be no more liberal training than this.

Running through this course and taking a little less than one-third of the time of the student, is the work in Domestic Science. This offers sound and advanced training with University methods and by first-class instructors, in Cookery; including utility and cost of fuels, construction of stoves, comparative nutritive value of foods, the chemistry of the human body, the effect of cooking upon the digestibility of foods, general cookery with constant laboratory practice and invalid cookery: First Aid to the Injured and general Nursing; Household Economics—that is, the situation of a house, the planning and construction of a house, light, heat, ventilation, water-supply, plumbing, sewers, disinfection, the ordering of housework, simple domestic accounts and how to keep them, and laundry work: Sewing, Dressmaking and Millinery—the production and manufacture of materials, the choice and treatment of materials, and the study of line, form, color and texture as applied to dressmaking and millinery; plain sewing and art needlework, and all forms of designing, cutting, drafting, etc., in dressmaking and millinery, with constant laboratory practice under competent instruction: Art in the household—with studies and practice in color schemes and all forms of decoration.

CONCLUSION

I again desire to express my appreciation of the faithfulness, the patience and the uniform courtesy of the Board, the Faculty and the students during the year that has just closed. The burdens of administration have not been light for any of us. The Board has known keen anxiety as to finances and as to the completion of the work undertaken nearly a year ago. When the academic year opened the Faculty and students found the work upon the chapel unfinished, the disorder and noise of workmen and litter of material and work everywhere, with roads and paths almost impassable; and there was the increased number of students with no gains but even restrictions in floor space and general room. Through all this, so trying to the nerves of all concerned, there was manifested the greatest patience and willingness to be mutually helpful in every possible way. Though it was the opening of the second term before this ceased to trouble us, there was a prevalent cheerfulness that was contagious and inspiring.

Very respectfully,

JAMES H. CANFIELD.

TABLE I—THE WORK OF INSTRUCTORS, 1896-97.

Subjects.	Hours per week.						Number of students.		
	Lectures.			Laboratory.			First Term.	Second Term.	Third Term.
	First Term.	Second Term.	Third Term.	First Term.	Second Term.	Third Term.			
AGRICULTURE.									
Breeds of Live Stock (8) ¹	3			2			23		
Principles of Breeding (9).....		3			2			21	
Stock-feeding and Hygiene (10).....			3			2			19
Farm Equipment (11).....	3			2			11		
Soils (12).....		3			2			12	
Farm Crops (13).....			3			2			10
Animal Mechanics and Exterior (14).....	3			2			14		
Butter Making and Cheese Making (15).....		2			8			18	
Rural Economics (16)			4						15
Dairy Farming (5).....		2			2			13	
Butter Making and Cheese Making (6).....					16			13	
Butter Making and Cheese Making (7).....		2						13	
AGRICULTURAL CHEMISTRY.									
Principles, Nomenclature, etc. (1)	3			10			52		
Organic Chemistry (8)		2			18			44	
Applications of Chemistry to Agriculture (9)			2			19			40
Laboratory (4)		2		10	18	19	8	9	9
Chemistry of Milk and Milk-testing (7).....		2						13	
Thesis and Similar Work.....				3	2	2	1	1	1
ANATOMY AND PHYSIOLOGY.									
Human Anatomy and Physiology (1).....	10	10		1	1		57	53	
General Physiology (2).....			3			1			10
Histology and Histo-Chemistry (59, 4).....				11	11	10	6	6	3
Physiological Laboratory (53, 55)			1	12	12	10	8	8	12
Bacteriology (6, 7, 8, 57)					6			50	
Microscopy (5, 58)			1			7			16
Thesis and Similar Work.....				4	4	5	6	6	5
ASTRONOMY.									
Astronomy and Geodasy (2).....	2		4	10			6		9
Thesis and Similar Work.....				5		15	2		2
General Astronomy (52).....		5						14	
BOTANY.									
Physiological Botany (6)	5			11			38		
Systematic and Physiological Botany (55)..	2	2		11	11		18	18	
Physiological and Economic Botany (7).....		3			12			14	
Laboratory Work (57, 58).....				11	8	10	11	11	10
Elementary Botany (1).....			3			26			56
Economic Botany and Veg. Pathology (8)			3						14
Special and Advanced Work (59, 61, 63, 65).....			2	9	11	12	7	21	17
Thesis and Similar Work.....				5	5	4			

¹ The figures in brackets are the department numbers—for which see Part II of this Report.

TABLE I—THE WORK OF INSTRUCTORS, 1896-'97—Continued.

Subjects.	Hours per week.						Number of students.		
	Lectures.			Laboratory.			First Term.	Second Term.	Third Term.
	First Term.	Second Term.	Third Term.	First Term.	Second Term.	Third Term.			
CLAY-WORKING AND CERAMICS.									
Lectures (4).....	5			2			5		
Analysis of Clays and Minerals (2).....		2			10			5	
Lectures (6).....			5			20			3
Quantitative Analysis of Simple Min'ls (1).....	1			10			5		
Analysis of Glasses and Glazes (7).....					10			1	
Manufacture of Bricks (5).....		7						4	
"Rational" Analysis of Clays & Pottery (3).....						10			
CHEMISTRY.									
Elementary (51, 52).....	2	2		6	8		44	43	
Elementary (7).....	6	6		40	42		130	118	
Qualitative Analysis (12).....			1			20			39
Qualitative Analysis (53, 54).....	1	1		6	3		11	7	
Quantitative Analysis (55, 56 and 4).....	1	1	1	9	11	7	22	23	25
Organic (57, 8).....	4			3			8		
Advanced Chemistry (59, 60).....				1	2		2	6	
Applied Chemistry.....		3						5	
Toxicology (11).....			4						15
Thesis and Similar Work.....				2		4	2		10
CIVIL ENGINEERING.									
Land Surveying (1).....	5			10			21		
Topography (4).....					12			17	
Railroad Surveying (2).....			10			10			18
Topographical Surveying (3).....	1			10			18		
Working Drawings in Railw'y Constr't'n(5).....					6			18	
Stereotomy (6).....		2			12			16	
Bridge Strains (7).....			5						14
Bridge Designing (8).....	4			3			5		
Civil Engineering Laboratory (14).....					8			9	
Sanitary Engineering (10).....			5						8
Masonry Construction (15).....	5						16		
Highways (16).....		5						10	
Water Supply (18).....		5						8	
Trusses (19).....			5						14
Roof Trusses (20).....	5						1		
Theseis and Similar Work.....		2					4	8	4
DRAWING.									
Freehand Drawing (1).....				16	12	12	90	117	52
Lettering (2).....						10			73
Mechanical Drawing (3).....	2	4	2	8	8	12	70	64	56
Photography (7).....	1		1	4		8	9		29
Mechanical Drawing (8).....	1	1		3	4		10	7	
Mechanical Drawing (10).....	1			4			31		

TABLE I—THE WORK OF INSTRUCTORS, 1896-97—Continued.

Subjects.	Hours per week.						Number of students.		
	Lectures.			Laboratory.					
	First Term.	Second Term.	Third Term.	First Term.	Second Term.	Third Term.	First Term.	Second Term.	Third Term.
DRAWING—Concluded.									
Mechanical Drawing (11).....		1			8			2	
Clay Modeling (12).....				4	4	4	7	10	6
Technical and Decorative Design (13).....				4	4		11	4	
Pen Drawing (14).....				4			6		
Technical Drawing (5).....	1			4			33		
Orders of Architecture (1).....		1			8			4	
Styles of Architecture (2).....			1			8			6
ELECTRICAL ENGINEERING.									
Electrical Engineering (2).....	5	5	5				17	16	14
Electrical Designing (3).....				6	6	6	17	17	15
Electrical Laboratory (4).....				20	18	18	17	16	14
Electrical Engineering (5).....	1	2		4	8		13	11	
*ELOCUTION AND ORATORY.									
The Science of Expression (51) (52).....	4	4		1	1		66	64	
The Art of Expression (53, 54).....	2	2		1	1		12	12	
Shakespeare and the Drama (55) (56).....	2	2		1	2		20	20	
Elocution, (Law Class).....	1						20		
*ENGLISH LITERATURE.									
An Introduction to Eng. Literature (51) (52).....	8	8					61	35	
Poetry, from Spencer to Milton (53).....	2						18		
Prose, from Spencer to Milton (54).....		2						19	
The English Bible (55) (56).....	1	1					22	19	
Shakespeare (57).....	3						15		
The Drama (58).....		3						17	
Prose, from Cowper to Ruskin (63).....	3						13		
Poetry, from Cowper to Browning (64).....		3						16	
Masterpieces (65) (66).....	3	3					4	5	
Thesis Work.....				1	1		8	8	
GEOLOGY.									
Cosmical Geology (2) (51).....	5	5		5	3		63	56	
Paleontology (53) (54).....		2		6			5	5	
Petrography (55) (56).....				4	2		2	4	
Physical Geography (1).....			5						26
Economic Geology (3).....			5			4			15
GERMAN LANGUAGE AND LITERATURE.									
Elementary German (1) (51) (52).....	12	12	12				114	105	77
Science Reading (2) (53) (54).....	2	4	2				8	8	8
German Literature (55) (56).....	4	4	4				30	20	21

*Semester work.

TABLE I—THE WORK OF INSTRUCTORS, 1896-97—Continued.

Subjects.	Hours per week.						Number of students.		
	Lectures.			Laboratory.					
	First Term.	Second Term.	Third Term.	First Term.	Second Term.	Third Term.	First Term.	Second Term.	Third Term.
GERMAN LANGUAGE AND LITERATURE—									
Concluded.									
The German Drama (57).....	3						5		
The German Prose (58).....		3	3					3	3
Faust I—(59).....	2						11		
Faust II—(60).....		2	2					7	7
Deutsche Culturgeschichte (63).....	1						4		
Deutscher Aufsatz (64).....		1	1					4	4
Thesis.....				1	1	1			
*GREEK LANGUAGE AND LITERATURE.									
Elementary Greek.....	5	5					21	19	
Xenophon's Memorabilia (51).....	4						7		
Herodotus (52).....		4						6	
Lysias (53).....	4						14		
Homer (54).....		4						13	
Thucydides (55).....	3						21		
Demosthenes (56).....		3						20	
Homer (57).....	3						15		
Attic Drama (58).....		3						14	
*HISTORY AND POLITICAL SCIENCE.									
HISTORY.									
General History of Europe to Close of Middle Ages (51).....	5						101		
From Close of Middle Ages to French Revolution (52).....		6						82	
Political & Constitutional History of England to the Accession of the Stuarts (53).....	3						19		
From Accession of Stuarts to Present Time (54).....		3						22	
Political and Constitutional History of United States (55) (56).....	8	8					50	37	
History of Europe from 1789 to 1815 (57).....	3						7		
History of Europe since 1815 (58).....		3						10	
ECONOMICS.									
Elements of Political Economy (51) (52).....	8	8					53	85	
The History of Industrial Society (53).....	3						10		
The History and Theory of Socialism (54).....		3						10	
Practical Problems in Economics (55).....	2						24		
Industrial and Social Reforms (56).....		2						31	
POLITICAL SCIENCE.									
International Law (51).....	2						11		
Municipal Government, (52).....		2						16	
Political Institutions of the United States (53).....	3						9		
Comparative Political Institutions of Europe and America (54).....		3						9	
Thesis Work.....				4½	4½		16	14	

*Semester work.

TABLE I—THE WORK OF INSTRUCTORS, 1896-97—Continued.

Subjects.	Hours per week.						Number of students.		
	Lectures.			Laboratory.			First Term.	Second Term.	Third Term.
	First Term.	Second Term.	Third Term.	First Term.	Second Term.	Third Term.			
HORTICULTURE.									
Elements of Horticulture (1).....	3	.....	3	2	.....	2	8	.....	14
Pomology and Viticulture (5).....	4	.....	.....	2	.....	.....	3	.....	.....
Vegetable Gardening and Seed Growing(6).....	.....	3	.....	.....	2	.....	.....	13	.....
Small Fruit Culture (7).....	.....	.....	1	.....	.....	8	.....	.....	2
Elements of Floriculture (8).....	2	.....	.....	3	.....	.....	6	.....	.....
Commercial Floriculture (9).....	.....	2	.....	.....	2	.....	.....	7	.....
Home Flower Gardening (10).....	.....	.....	2	.....	.....	2	.....	.....	8
Arboriculture (11).....	1	.....	.....	2	.....	.....	6	.....	.....
Forestry (12).....	.....	2	.....	.....	1	.....	.....	3	.....
Landscape Gardening (13).....	.....	.....	2	.....	.....	2	.....	.....	6
Thesis and Similar Work.....	.....	.....	.....	4	2	.....	.....	.....	.....
INDUSTRIAL ARTS AND SHOPWORK.									
Industrial Arts (4).....	3	.....	.....	.....	6	6	1	1	1
Carpentry and Pattern Making (1).....	.....	.....	.....	12	12	12	19	41	54
Forging (2).....	.....	.....	.....	15	15	19	29	35	30
Foundry Work (3).....	.....	.....	.....	8	8	8	15	18	18
Chipping and Filing (4).....	.....	.....	.....	6	4	8	2	10	16
Machine Work (5) (6).....	.....	.....	.....	12	15	12	8	22	27
Thesis and Similar Work.....	.....	.....	.....	.....	4	6	.....	1	1
*LATIN.									
Cicero (51).....	8	.....	.....	.....	.....	.....	41	.....	.....
Livy, Horace (52).....	.....	8	.....	.....	.....	.....	.....	42	.....
Horace (53).....	4	.....	.....	.....	.....	.....	31	.....	.....
Tacitus (54).....	.....	4	.....	.....	.....	.....	.....	29	.....
Plautus (55).....	3	.....	.....	.....	.....	.....	9	.....	.....
Tacitus—Annals (56).....	.....	3	.....	.....	.....	.....	.....	8	.....
Lucretius (57).....	3	.....	.....	.....	.....	.....	10	.....	.....
Elegiac Poets (58).....	.....	3	.....	.....	.....	.....	.....	8	.....
Pharmaceutical (1) (59) (60).....	5	5	5	.....	.....	.....	27	22	22
Teachers' Course (61) (62).....	2	2	.....	.....	.....	.....	4	4	.....
Thesis and Similar Work.....	.....	.....	.....	.....	6	.....	.....	.....	4
MATHEMATICS.									
Elementary Algebra (1).....	5	.....	.....	.....	.....	.....	25	.....	.....
Elementary Algebra (2).....	5	5	5	.....	.....	.....	11	9	8
Plane Geometry (3).....	10	5	.....	.....	.....	.....	25	30	.....
Solid Geometry (13).....	.....	10	.....	.....	.....	.....	.....	30	.....
Plane Trigonometry (14).....	20	.....	10	.....	.....	.....	81	.....	29
Analytical & Spherical Trigonometry (15).....	.....	15	.....	.....	.....	.....	.....	106	.....
College Algebra (16).....	.....	10	.....	.....	.....	.....	.....	108	.....
Plane Analytics (17).....	.....	.....	25	.....	.....	.....	.....	.....	96
Space Analytics (18).....	20	.....	.....	.....	.....	.....	66	.....	.....
Differential Calculus (19).....	.....	20	.....	.....	.....	.....	.....	65	.....

*Semester work—generally.

TABLE I—THE WORK OF INSTRUCTORS, 1896-97—Continued.

Subjects.	Hours per week.						Number of students.		
	Lectures.			Laboratory.			First Term.	Second Term.	Third Term.
	First Term.	Second Term.	Third Term.	First Term.	Second Term.	Third Term.			
MATHEMATICS—Concluded.									
Integral Calculus (20).....			20						70
Differential Equations (11)	1						28		
Least Squares (8).....	2						15		
*MATHEMATICS.									
Plane Trigonometry and Plane Analytics (51) (53)	12						96		
Problems on all Past Work (65) (66).....	1	1					13	14	
Advanced Mathematics (63) (64).....	7	7					10	12	
Elementary Calculus and Theory of Equations (52) (54)		12						104	
MECHANICAL ENGINEERING.									
Mechanism (3)		5						31	
Analytical Mechanics (6).....	10	10					48	40	
Strength of Materials (7).....			10						45
Thermodynamics (8)	5		5				27		27
Prime Movers (9)		5						27	
Machinery and Millwork (10)...			5						23
Experimental Laboratory (12, 13, 14, 15, 16, 17)				14	28	14	18	21	23
Machine Design (18)	3	5					10	10	
Hydraulic Machinery (20)			2						9
Timber and Masonry (22)		5						23	
Thesis Work						12			9
Care of Boiler and Engine.....		1				4		26	
METALLURGY AND MINERALOGY.									
Metallurgy (4)	5	5					33	27	
Metallurgical Laboratory (5).....	1	1		21	10	21	17	17	14
Ore Dressing (8)	2						2		
Assaying (6)		2			10			9	
Mineral Chemistry (9).....			5						2
Mineralogy (2)			3						38
Determinative Mineralogy (3).....						10			6
Thesis and Similar Work					2	2		3	3
Metallurgical Construction (7)				3	6		3	2	
MILITARY SCIENCE AND TACTICS.									
Military Drill.....	5		5				285		225
Tactics		2						30	
Art of War.....		2						33	
MINE ENGINEERING.									
Mine Surveying (1)	2			9			3		
Mine Engineering (5).....	5	5	5		4	4	4	3	

*Semester work.

TABLE I—THE WORK OF INSTRUCTORS, 1896-97—Continued.

Subjects.	Hours per week.						Number of students.		
	Lectures.			Laboratory.					
	First Term.	Second Term.	Third Term.	First Term.	Second Term.	Third Term.	First Term.	Second Term.	Third Term.
MINE ENGINEERING Concluded.									
Mine Surveying (4).....	2			9			8		
Thesis and Similar Work.....					2	14		3	
Plans and Specifications (6).....			4			10			3
*PEDAGOGY.									
Elementary Educational Psychology (51).....	5						10		
The Science and Art of Teaching (52).....		7						15	
History of Education (55).....	2						17		
The Herbartian Pedagogy (59).....	2						9		
Philosophy of Education (61).....	2						5		
The Herbartian Pedagogy (60).....		2						6	
Laurie's Institutes of Education (62).....		2						6	
Herbart's Science of Education.....		2						2	
Special.....		2						21	
University Extension.....	2	3					28	37	
PHARMACY.									
Pharmacy (6) (7).....	3	2			10		35	30	28
Dispensatories (8).....			2			10			
Pharmaceutical Chemistry (9).....	2			10			14		
Extemporaneous Chemistry (10).....		2			10			11	
Lectures and Dispensing Practice (11).....			2			10			11
Materia Medica (12).....	8						15		
Materia Medica and Therapeutics (14).....			3						12
Pharmaceutical Assaying (15).....	1			10			7		
General Pharmacy (17).....		1			10			4	
Laboratory (18).....		3						13	
Thesis and Similar Work.....					10	10		5	6
*PHILOSOPHY.									
Psychology (51).....	6						88		
Logic and Ethics (52).....		6						78	
Ethics (55).....	3						22		
History of Modern Philosophy (56).....		6						48	
Hist. of Ancient and Medieval Phil. (57).....	3						25		
Advanced Work (59) (60).....	2	2					4	2	
Special.....	2	2					4	4	
PHYSICS.									
Elementary Physics (1).....	10	10					92	71	
Mechanics and Heat (2).....	5	7	5				90	76	56
Problems (3).....	2	2	2				28	23	22
Electricity and Magnetism (4).....	3						21		
Physical Laboratory.....				49	32	26	28	58	56

*Semester work.

TABLE I—THE WORK OF INSTRUCTORS, 1896-97—Continued.

Subjects.	Hours per week.						Number of students.		
	Lectures.			Laboratory.					
	First Term.	Second Term.	Third Term.	First Term.	Second Term.	Third Term.	First Term.	Second Term.	Third Term.
PHYSICS—Concluded.									
Mechanics, Sound and Heat (53)	3	3					27	22	
Electricity and Magnetism (54)			3						20
Thesis and Similar Work.....	1	2	3				1	1	1
*RHETORIC AND ENGLISH LANGUAGE.									
Paragraph Writing (51) (1).....	12						260		
Practical Rhetoric (1) (52).....		10						210	
Analysis of Prose (53) (54)	8	8					34	42	
Advanced Rhetoric (3).....		4						57	
Advanced Composition (4).....	4						69		
Rapid Writing (55) (56).....	1	1					15	18	
Brief Making and Argument (57).....	3						16		
Rhetorical Theory and Criticism (61) (62)	2	2					8	9	
Thesis and Similar Work.....				2				11	
ENGLISH LANGUAGE.									
Old English (51) (52).....	4	4					74	60	
Middle English (53).....	2						7		
Historical English Grammar (54)		2						7	
*ROMANCE LANGUAGES.									
FRENCH.									
Elementary French (1) (52)	16						113		
Modern Prose and Plays (1) (52).....		12						86	
Science Reading (3) (53); (4) (54)	4	4					12	12	
Modern French Literature (55) (56)	4	4					33	35	
The Classic and Romantic Drama (57).....	3						19		
Advanced Prose Composition (58).....		3						16	
French Tragedy (61).....	3						7		
The Precursors of the Romantic Mov't (62)		3						8	
ITALIAN.									
Grammar and Readings (51) (52).....	2	2					4	3	
Thesis and Similar Work.....				7	7				
VETERINARY MEDICINE.									
Anatomy (28).....	5						14		
General Pathology (29).....		5						14	
Special Pathology (30)			5						14
General Surgery (24)	5			5			12		
Clinic (19).....				12	14	12	11	9	9
Special Pathology (20) (21)	3	5	3				9	9	9
General Therapeutics (22).....			5						9

*Semester work.

TABLE I—THE WORK OF INSTRUCTORS, 1896-97—Concluded.

Subjects.	Hours per week.						Number of students.		
	Lectures.			Laboratory.					
	First Term.	Second Term.	Third Term.	First Term.	Second Term.	Third Term.	First Term.	Second Term.	Third Term.
VETERINARY MEDICINE—Concluded.									
Meat Inspection (27).....	5						10		
Diseases of the Cow (17).....		3						13	
Lectures (13).....			5						2
Myology (12).....		5			9			2	
Eye Diseases.....			2						9
Anatomical Laboratory (25).....		5			3			9	
Principles of Horse-shoeing (26).....			3						10
ZOOLOGY.									
Comparative Zoology (1) (51) (52).....	3	3		13	5		64	50	
Com. Anatomy of Vertebrates(53) (55).....	1			15			9		
Com. Anatomy of Vertebrates (54) (56).....		1			17			9	
Entomology (61) (62).....				10	10		2	1	
Zoology and Anatomy (57) (59) (58) (60)....	1	1		15	10		13	12	
Economic Entomology (4).....			2			6			9
Systematic and Practical Entomology (7).....			2			1			5
Comparative Zoology (64).....		3			2			23	

TABLE II—SHOWING THE WHOLE NUMBER OF DEGREES IN COURSE CONFERRED SINCE THE FOUNDING OF THE UNIVERSITY.

	1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.	1886.	1887.	1888.	1889.	1890.	1891.	1892.	1893.	1894.	1895.	1896.	1897.
Bachelor of arts.....	1	1	6	2	2	1	5	4	6	8	6	1	7	2	6	9	12	19	13	17
Bachelor of philosophy.....				2		2	2	1	1	2	6	7	4	8	8	5	5	19	26	27
Bachelor of science.....	5	5	1	2	5	3	2	4	2	4	4	8	2	10	7	11	7	9	4	10
Bachelor of science in agr.....								1	1				2	3	3			2	4	4
Bachelor of science in H. & F.....																1	3	1	1	1
Bachelor of science, Ind. Arts.....																				1
Civil engineer.....						1	1	1	3	3	4	1	2	2	7	9	7	9	11	4
Mechanical engineer.....			1		2	4	1	3	1	2	4	2	3	2	5	2	1	2	4	9
Electrical engineer.....															4	9	8	15	17	13
Engineer of mines.....			1	1			1	2	4	1	4	2			1	1	4	1	6	3
Graduate in pharmacy.....										3		2	3	6	5	5	3	11	12	11
Master of pharmacy.....																			1	
Doctor of veterinary med.....										1		1	4		4	5		4	2	3
Master of arts.....												1	1	1	2			2		4
Master of science.....				1								1	1	2	2		2		3	3
Master of agriculture.....																	1	2		
Master of science in H. & F.....																				1
Doctor of philosophy.....		1															1			
Doctor of science.....													1					1		1
Bachelor of laws.....															9	18	15	16	6	23
Master of laws.....															2	4	2		6	
Totals.....	6	7	9	8	9	11	12	16	18	24	28	26	30	36	65	79	70	112	118	135

TABLE III—SHOWING THE NUMBER OF STUDENTS IN THE GENERAL, TECHNICAL, AND PROFESSIONAL COURSES.

	1890-91.	1891-92.	1892-93.	1893-94.	1894-95.	1895-96.	1896-97.
General courses (College of Arts)...	137	151	194	245	256	322	337
Technical courses (other Colleges except Law).....	166	259	381	368	424	453	453
Professional courses (College of Law) .....	.....	55	67	72	65	100	132
*Graduate students and summer school	2	.....	.....	1	.....	94	97
Totals	305	465	642	686	745	969	1,019

*Until 1896, graduate students have been included in the first three classes.

STATEMENT III.

LIST OF EMPLOYEES AND COMPENSATION.

In compliance with Section 7 of the *Organic Act*, passed by the Legislature of Ohio, May 1, 1878, which requires the list of "the number of professors, officers, teachers and other employes, and the compensation of each, to be annually reported," I submit the following:

Employees.	Position.	Salary.
James H. Canfield	President	\$6,000 00
W. H. Scott	Professor of Philosophy.....	2,250 00
Edward Orton	" geology	2,250 00
Wm. R. Lazenby.....	" horticulture and forestry.....	2,250 00
Josiah R. Smith	" Greek language & literature..	2,250 00
Henry A. Weber.....	" agricultural chemistry.....	2,250 00
Benj. F. Thomas.....	" physics	2,250 00
Geo. W. Knight	" history and political science..	2,250 00
R. Daniel Bohanan	" mathematics and astronomy..	2,250 00
David S. Kellicott.....	" zoology and entomology.....	2,250 00
Ernst A. Eggers.....	" German language, literature..	2,250 00
C. Newton Brown.....	" civil engineering	2,250 00
Albert M. Bielele.....	" anatomy and physiology.....	2,250 00
Wm. A. Kellerman.....	" botany	2,250 00
Thos. F. Hunt.....	" agriculture	2,500 00
Samuel C. Derby.....	" Latin language, literature ...	2,250 00
Nathaniel W. Lord.....	" mining engineering	2,000 00
A. L. Williston.....	Director of industrial department.....	2,200 00
Albert C. Barrows	Professor of Eng. language & literature....	2,250 00
Joseph V. Denney	" rhetoric	2,250 00
Benj. L. Bowen.....	" romance languages	2,250 00
W. F. Hunter.....	Dean of law faculty.....	2,250 00
Geo. B. Kauffman.....	Professor of pharmacy.....	2,000 00
John P. Gordy.....	" pedagogy.....	2,250 00
Robt. I. Fulton.....	" elocution and oratory.....	1,200 00
Wm. T. Magruder.....	" mechanical engineering.....	2,250 00
John T. Martin.....	" military science.....	400 00
Edward Orton, Jr.....	Director school of ceramics.....	1,800 00
Frank A. Ray.....	Associate professor mining engineering....	1,800 00
Jos. N. Bradford	Associate " drawing.....	1,800 00
Wm. McPherson.....	" " general chemistry.....	1,800 00
Geo. W. McCoard.....	Assistant " mathematics.....	1,600 00
Sidney A. Norton.....	Lecturer in general chemistry.....	1,200 00
F. C. Caldwell.....	Assistant professor physics.....	1,400 00
Henry C. Lord.....	Director observatory.....	1,500 00
C. E. Sherman	Assistant civil engineering.....	1,000 00
R. A. Hitchcock	" professor mech'l engineering.....	1,400 00
W. D. Gibbs.....	" " agriculture	1,400 00
E. A. Eisenrohn.....	" " German	800 00
David S. White.....	Associate " veterinary medicine.....	1,200 00
Thos. E. French	Assistant in drawing.....	1,000 00
F. C. Clark	" professor of economics	1,000 00
Olive B. Jones	Librarian.....	1,000 00
Chas. W. Weick	Foreman carpenter shop.....	900 00
William A. Knight.....	" machine shops	900 00
C. C. Sleffel.....	" forge room.....	800 00
J. E. Boyd	Assistant in physics	1,000 00
Karl D. Swartzel.....	" mathematics.....	800 00
W. L. Graves.....	" rhetoric	750 00
Jas. S. Hine	" entomology	750 00
A. E. Vinson	" agricultural chemistry	700 00
C. B. Morrey	" anatomy and physiology.....	850 00

LIST OF EMPLOYES AND COMPENSATION—Concluded.

Employees.	Position.	Salary.
H. J. Noyes.....	Assistant in dairy husbandry.....	\$500 00
Frank Haas.....	" Metallurgy and mineralogy ...	600 00
Arthur W. Hodgman.....	" Greek and Latin.....	700 00
Chas. W. Burkett.....	" Agriculture.....	700 00
Edward F. Coddington.....	" Fellow in astronomy.....	300 00
C. B. Hine.....	" horticulture.....	540 00
J. A. Bownocker.....	" geology.....	800 00
H. C. Ames.....	" history.....	800 00
C. L. Arnold.....	" Mathematics.....	800 00
C. A. Dye.....	" pharmacy.....	800 00
W. F. Lavery.....	" veterinary medicine.....	700 00
E. E. Harold.....	Storekeeper.....	700 00
Harry M. Ball.....	Assistant in veterinary medicine.....	400 00
W. K. Moorehead.....	Curator arch. collection.....	600 00
Thos. K. Lewis.....	Assistant in drawing.....	600 00
C. A. Bruce.....	" French.....	700 00
F. L. Landacre.....	" zoology.....	600 00
W. L. Evans.....	" ceramics.....	400 00
Raymond L. Hughes.....	" chemistry.....	350 00
Frank Haas.....	" metallurgy.....	600 00
C. W. Foulk.....	" general chemistry.....	800 00
Harriet Townshend.....	" library.....	500 00
F. E. Kester.....	" physics.....	500 00
E. M. Wilcox.....	" botany.....	300 00
H. M. Biebel.....	Fellow and laboratory assistant in electrical engineering.....	300 00
J. R. Spurrier.....	Fellow and laboratory assistant in mechanical engineering.....	300 00
A. C. Harvey.....	Fellow and assistant in rhetoric.....	250 00
Robert Fischer.....	Student assistant in chemistry.....	100 00
Edward T. Watson.....	" " ".....	100 00
Maud Jeffreys.....	Assistant in library.....	300 00
Gertrude Kellicott.....	" " ".....	300 00
W. R. Beattie.....	Florist.....	600 00
Alexis Cope.....	Secretary.....	2,250 00
F. W. Prentiss.....	Treasurer.....	400 00
W. C. McCracken.....	Chief engineer.....	1,500 00
Chas Low.....	Assistant engineer.....	650 00
Geo. R. Rose.....	Plumber.....	780 00
P. Cottingham.....	Watchman.....	540 00
William Whitestine.....	Janitor.....	540 00
James Kelley.....	Lawnkeeper.....	500 00
Jean Blackford.....	Executive clerk.....	600 00
Edith D. Cockins.....	Record clerk.....	600 00
Wm. Standley.....	Fireman.....	540 00
Benj. Le Bay.....	".....	540 00
F. B. Brewer.....	Janitor.....	480 00
Wash Townsend.....	".....	480 00
John E. Adams.....	".....	480 00
John Conrad.....	".....	480 00
Edward Stalter.....	".....	200 00
Horace Judd.....	".....	200 00
A. L. Buckman.....	".....	200 00
G. A. Flickinger.....	".....	200 00
J. B. Parker.....	".....	135 00
Jay A. Thompson.....	".....	100 00
Mary Howells Cope.....	Clerk in office Board of Trustees.....	400 00

NOTE—The members of the law faculty, except the Dean were paid \$6.25 per lecture; the amount being ascertained by deducting from the receipts of the school of law the salary of the Dean, advertising and other expenses, and dividing the result by the whole number of lectures delivered during the year.

REPORT OF TREASURER

Of the Ohio State University to the Secretary of Agriculture and the Secretary of the Interior, of amount received under act of Congress of August 30, 1890, in aid of Colleges of Agriculture and the Mechanic Arts, and of the disbursements thereof, to and including June 30, 1897.

Balance on hand July, 1, 1896.....	\$74 39
Date of receipt of installment for 1896-'97, July 6, 1896.....	22,000 00
Total available for year ended June 30, 1897.....	\$22,074 39
Disbursements thereof for and during the year ended June 30, 1897:	
Agriculture, as per Schedule A.....	2,960 76
Mechanic arts, as per Schedule B.....	10,742 50
English language, as per Schedule C.....	827 11
Mathematical science, as per Schedule D.....	755 87
Natural or Physical Science, as per Schedule E.....	5,430 41
Economic science, as per Schedule F.....	503 80
Total expended during year.....	\$21,220 45
Balance remaining unexpended July 1, 1897.....	\$853 94

I hereby certify that the above account is correct and true, and, together with the schedules hereunto attached, truly represents the details of expenditures for the period and by the institution named, and that said expenditures were applied only to instruction in agriculture, the mechanic arts, the English language, and the various branches of mathematical, physical, natural, and economic science, with special reference to their application in the industries of life and to the facilities for such instruction.

F. W. PRENTISS,
Treasurer.

SCHEDULE A.

Disbursements for instruction in Agriculture and for facilities for such instruction, during the year ended June 30, 1897.

I. FOR SALARIES OF INSTRUCTORS.

Names of instructors.	Subjects taught for which paid from "Morrill fund."	Amount
Thos. F. Hunt, professor agriculture.....	Agriculture.....	\$250 00
W. D. Gibbs, ass't professor agriculture...	"	140 00
C. W. Burkett, ass't professor agriculture..	"	70 00
W. R. Lazenby, professor horticulture.....	Horticulture	225 00
C. B. Hine, ass't professor horticulture....	"	45 00
H. A. Weber, prof. agr. chemistry.....	Agriculture chemistry...	225 00
A. E. Vinson, ass't prof. agr. chemistry....	"	60 00
D. S. White, ass't prof. vet. medicine.....	Veterinary medicine....	120 00
W. F. Lavery, ass't prof. vet. medicine.....	"	70 00
H. M. Ball, ass't prof. vet. medicine.....	"	50 00
		\$1,255 00

II—FOR FACILITIES AS FOLLOWS.

Department of Agriculture.

Mill feed, \$214.24; timothy and clover seed, \$52.36; blacksmithing, \$93.10; corn, \$20.89; hay-truck, \$13.61; wire cloth, \$24.98; engine for thresher, \$27; castings, \$5.70; farm implements, \$18.71; hay and pasturage, \$207.12; wagon, \$120; lantern slides, \$13; repairing wagon, \$17.50; gas, 7.....	835 21
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Dairy School.

Dairy supplies, \$15.95; dairy machinery, \$66.97; milk for laboratory, \$503.83.....	586 75
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Department of Horticulture.

Feed for horses, \$100; manure, \$31.....	131 00
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Department of Veterinary Medicine.

Stall guards, \$15; animal cages, \$25; instruments (surgical) \$71; animals for dissection, \$16; tin boxes, \$25.80.....	152 89
	<hr/> \$1,705 76
Total	\$2,960 76

SCHEDULE B.

Disbursements for instruction in Mechanic Arts and for facilities for such instruction during the year ended June 30, 1897.

I—FOR SALARIES OF INSTRUCTORS.

Names of instructors.	Subjects taught for which paid from "Morrill Fund."	Amount.
C. N. Brown, professor.....	Civil engineering.....	\$225 00
C. E. Sherman, assistant.....	"	100 00
W. T. Magruder, professor.....	Mechanical engineering..	225 00
E. A. Hitchcock, assistant professor.....	"	140 00
J. R. Spurrier, assistant.....	"	30 00
A. L. Williston, professor	Industrial arts.....	220 00
W. A. Knight, foreman machine shops...	"	90 00
C. W. Weick, foreman carpenter shops ...	"	90 00
C. C. Sleffel, foreman forge rooms.....	"	80 00
N. W. Lord, professor	Mining engineering.....	200 00
F. A. Ray, assistant professor.....	"	180 00
Frank Haas, assistant	"	60 00
Geo. B. Kauffman, professor.....	Pharmacy	200 00
Clair A. Dye, assistant.....	"	80 00
Edward Orton, Jr., professor	Ceramics	180 00
W. D. Evans, assistant.....	"	40 00
J. N. Bradford, associate professor.....	Drawing	180 00
T. E. French, assistant.....	"	100 00
T. K. Lewis, assistant.....	"	60 00
F. C. Caldwell, assistant professor.....	Electrical engineering...	140 00
H. M. Biebel, assistant.....	"	30 00
		<hr/> \$2,650 00

II--FOR FACILITIES, AS FOLLOWS:

Text-books and reference books..... \$401 27

Department of Industrial Arts.

Labor and material fitting up foundry, \$1,412.98; lumber and iron supplies, \$289.40; tools and hardware, \$227.68; scales, \$24.40; cupola furnace, \$160.00; castings, \$26.50; pig-iron, \$169.02....\$2,309 98

Department of Civil Engineering.

Surveyors instruments, \$248.67; stencil paper, \$18.55; drawing tables, \$92.55; surveyors' tape, \$17.00 367 77

Department of Mechanical Engineering.

Calorimeter, \$26.00; Hawkin's counter, \$10.00; mirror apparatus, \$100.00; castings, \$80.56; scales, \$29.60; indicators, \$157.50; tools, \$10.45; indicator, \$41.50; planimeter, etc., \$25.75; tachometer, etc., \$85.50; testing machines and fittings, \$2,142.94; machine parts, \$69.11..... 2,778 51

Department of Pharmacy.

Chemical apparatus and supplies..... 789 97

Department of Ceramics.

Platinum crucibles and weights, \$302.30; plate copper, \$20.00; rep. mach., \$15.50; coke, \$19.56; block heads, \$21.09; plat dishes, \$10.23..... 388 68

Department of Drawing and Photography.

Cameras and accessories, \$302.52; photo plates, \$49.80; models, \$15.75; drawing tables, \$42.50; plate supplies, \$5.58..... 416 15

Department of Electrical Engineering.

Twenty-eight iron plates, \$21.75; ammeter, \$17.25; switches, \$12.90; motor, \$125.00; brass castings, \$4.50 181 40

Department of Mining and Metallurgy.

Specimen ores, \$64.00; Coke, \$26.25; chemical apparatus and supplies, \$347.72 437 97

Department of Astronomy.

Wind vane for observatory..... 11 80

----- \$7,691 23

Total..... \$10,742 50

SCHEDULE C.

Disbursements for instruction in English Language and for facilities for such instruction, during the year ended June 30, 1897.

I.—FOR SALARIES OF INSTRUCTORS.

Names of instructors.	Subjects taught for which paid from "Morrill Fund."	Amount.
A. C. Barrows, professor.....	English literature.....	\$225 00
J. N. Demsey, professor.....	English language and rhetoric...	225 00
W. L. Graves, assistant.....	"	75 00
A. C. Harvey.....	"	25 00

II.—FOR FACILITIES, AS FOLLOWS:

Text-books and reference books	\$277 11
Total.....	\$827 11

SCHEDULE D.

Disbursements for instruction in Mathematical Science and for facilities for such instruction during the year ended June 30, 1897.

I.—FOR SALARIES OF INSTRUCTORS.

Names of instructors.	Subjects taught for which paid from "Morrill Fund."	Amount.
R. B. Bohannan, professor.....	Mathematics	\$225 00
George W. McCoard, asst. professor.....	"	160 00
H. C. Lord, director observatory	Astronomy and mathematics.....	150 00
C. L. Arnold, assistant	Mathematics.....	80 00
K. D. Swartzell, "	"	80 00
John T. Martin, "	"	40 00

II.—FOR FACILITIES, AS FOLLOWS:

Text-books and reference books.....	20 87
Total.....	\$755 87

SCHEDULE E.

Disbursements for instruction in Natural or Physical Science and for facilities for such instruction, during the year ended June 30, 1897.

I.—FOR SALARIES OF INSTRUCTORS.

Names of instructors.	Subjects taught for which paid from "Morrill Fund."	Amount.
Edward Orton, professor.....	Geology	\$225 00
J. A. Bownocker, assistant.....	"	80 00
D. S. Kellicott, professor.....	Zoology and entomology	225 00
J. S. Hine, assistant.....	"	85 00
F. L. Landacre, assistant.....	"	60 00
B. F. Thomas, professor.....	Physics.....	225 00
James E. Boyd, assistant	"	100 00
W. A. Kellerman, professor	Botany	225 00

OHIO STATE UNIVERSITY

F. E. Kester, assistant	Physics	50 00
A. M. Heile, professor	Anatomy and physiology	225 00
C. B. Morrey, assistant.....	"	85 00
W. McPherson, asso. professor.....	Chemistry.....	180 00
S. A. Norton, lecturer.....	"	120 00
C. W. Foulk, assistant	"	85 00
Ray M. Hughes, assistant.....	"	35 00
		<hr/> \$2,005 00

II.—FOR FACILITIES, AS FOLLOWS:

Text-books and reference books.....	\$160 39
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Department of General Chemistry.

Chemical supplies, \$920.71; chemical apparatus, \$423.62; combustion furnace, \$37.18; platinum discs, \$20.10; acids, \$23.75; water baths, \$18.25; warm air ovens, \$36.00; asbestos board, \$9.00; three barrels alcohol, \$69.65; roasting dishes, \$35.04; instruments, \$4.49; balances, \$51.50	\$1649 29
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Department of Physics

Fluoroscope, \$22.00; Crooke's tube, \$8.00; battery lines, \$11.55; 25 mercury flasks, \$16.75; motor and attachments, \$206.20; thermometers, \$30.00; electrical apparatus, \$18.62.....	313 12
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Department of Botany.

Microscopes, \$287.05; bulbs, \$18.00; collection of plants, \$60.08....	365 13
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Department of Geology.

Relief map of Ohio, \$123.73; collection of fossils, \$214.73; glass models, \$12.00; mineral specimens, \$17.75; model of trilobites, \$5.00	373 21
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Department of Anatomy and Physiology.

Meat stuffer, \$4.00; skeleton, \$62.00; centrifuge, \$20.00; optical parts, \$52.15	138 15
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Department of Zoology and Entomology.

Jars and bottles, \$57.91; optical parts, \$13.43; insect cases, \$31.20; microscopes, \$273.03; instruments, \$11.24; seines, \$9.68; material for dissection, \$29.63.....	426 12
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\$3,265 02

Total.....	\$5,430 41
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SCHEDULE F.

Disbursements for instruction in Economic Science and for facilities for such instruction, during the year ended June 30, 1897.

I.—FOR SALARIES OF INSTRUCTORS.

Names of instructors.	Subjects taught for which paid from "Morrill Fund."	Amount.
George W. Knight, professor.....	History and political science.....	\$225 00
F. C. Clark, assistant professor.....	Economics and sociology	100 00
H. V. Ames, assistant	History and political science.....	80 00

II.—FOR FACILITIES, AS FOLLOWS:

Text-books and reference books.....	98 80
Total.....	<u>\$503 80</u>

COLUMBUS, OHIO, June 30, 1897.

To the Honorable JOHN T. MACK, President, Board of Trustees of the Ohio State University.

SIR: I beg to hand you herewith my annual report for the fiscal year ending the 30th day of June, 1897. This report is accompanied by proper vouchers for all disbursements.

Respectfully submitted,

F. W. PRENTISS, Treasurer.

STATEMENT I.

DETAILED STATEMENT OF RECEIPTS BY F. W. PRENTISS, TREASURER, DURING
FISCAL YEAR ENDING JUNE 30, 1897.

Date.	Received from—	On account of.	Amount.
1896.			
June 30	To balance		\$513 96
July 6	U. S. Treasury.....	Cong. app. year ending June 30, '97 ..	22,000 00
	Geo. B. Kauffman.....	Amt rec'd, sale storeroom cards \$48.67	
	"	supplies .....388.33	437 00
8	Seasongood and Mayer.	Bal. proceeds cts of indebtedness...	148,072 25
31	W. F. Hunter.....	Student fees law school .....65.00	
	S. F. Harriman.....	Rent Townshend house .....25.00	90 00
Sept. 2	Com. sinking fund	In't. on endowment.....	5,000 00
26	Emerson McMillin	Endow. fellow. in astronomy 75.00	
	J. V. Dote	Rent of 25 old chairs 1 month.....2.50	
	Geo. B. Kauffman.....	Sale of 200 coupon cards .....1,000.00	1,077 50
Oct. 10	Alexis Cope, bursar	Fees fall term, 1896.....	11,237 65
34	Benj. F. Thomas.....	First inst. rent, 1896-97.....42.50	
	S. F. Harriman.....	On account rent .....25.00	
	Geo. B. Kauffman... ..	40 coupon cards sold students.200.00	267 50
31	Com. sinking fund	Int. on endowment	5,000 00
Nov. 5	Auditor of state.....	Req. No. 70 on O. S. U. fund.....	11,390 17
Dec. 4	Geo. B. Kauffman.....	First inst. rent, 1896-7..... 45.00	
	Auditor of state.....	Req. No. 71 on O. S. U. fund.11,390.17	11,435 17
31	Com. sinking fund	Int. on endowment	6,476 09
	B. F. Thomas.....	Second and 3 inst. rent, 1896-7..85.00	
	Emerson McMillin	Sec'd inst. E. McM. fellowship..75.00	
	Alexis Cope, bursar.....	Student fees..... 269.50	429 50
1897.			
Jan. 21	Auditor of state	Req. No. 72 O. S. U. fund	11,410 17
Feb. 5	Geo. B. Kauffman.....	Second and 3 inst rent, 1896-7 ..90.00	
	S. F. Harriman	Acc. rent Townshend house .....25.00	
	B. F. Thomas	Fourth and 5, inst rent, 1896-7..85.00	
	Geo. W. Knight	Third, 4th and 5th " 1895-6..112.50	
	W. C. McCracken.....	Cash rec'd sale of old boiler ....60.00	
	Alexis Cope, bursar.....	Std't. fees winter term, '96-7..3521.38	3,893 88
	Com. sinking fund.....	Int. on endowment	3,000 00
18	Auditor of state	Req. No. 73, O. S. U. fund	11,360 17
	Geo. B. Kauffman.....	Fourth inst. rent, 1896-7.....45.00	
	Crane Co.....	Error in statement..... 10.72	
	E. A. Eggers	Rent due Dec. 1, 1896.....37.50	
	W. C. McCracken	Sale of old slead.....5.00	98 22
27	G. W. Knight	Sixth and 7th inst rent, '95-6..75.00	
	G. B. Kauffman.....	50 coupon cards sold students 250.00	
	"	Fifth inst rent, 1896-7.....45.00	
	The Fish Stone Co.....	Cash paid for old stack.....45.50	415 50
Mar. 11	Auditor of state	Req. No. 74, O. S. U. fund	11,360 17
April 2	Emerson McMillin	Endowment McMillin fellow ..150.00	
	G. B. Kauffman	60 coupon cards sold stud'ts ...300.00	
	"	Sixth inst rent, 1896-7..... 45.00	
	Alexis Cope, bursar.....	Student fees.....5759.72	
	S. F. Harriman.....	Rent	6,279 72

STATEMENT NO. I—Concluded.

Date.	Received from—	On account of.	Amount.
1897.			
April 8	Com. sinking fund.....	Int. on endowment	5,000 00
	Auditor of state	Req. No. 75, O. S. U fund	11,480 17
17	G. W. Knight.....	Eighth and 9th inst rent, '95-6...75.00	
	B. F. Thomas	Sixth and 7th " '96-7...85.00	
	G. B. Kauffman	40 coupon cards sold std'ts.....200.00	360 00
May 6	Auditor of state	Req. No. 76 O. S. U. fund	11,480 17
24	Lucy A. Booth.....	Two diplomas.....2.50	
	G. W. Knight	Tenth inst rent, '95-6-1, '96-7...75.00	
	G. B. Kauffman	Seventh " '96-7...45.00	
	S. F. Harriman.....	On account rent	54.00
	G. B. Kauffman	40 cards sold students.....200.00	
	D. N. Kelly by W. T. Magruder	For testing pump.....10.00	
	Jas. Bowen	Deed act of March 14, 1889.....2.00	388 50
28	Auditor of state	Req. No. 77 O. S. U. fund.....	16,075 00
June 2	"	" 78 "	11,480 17
24	"	" 79 "	11,480 17
30	Alexis Cope, bursar.....	Student fees.....	1,259 70
	Com. sinking fund.....	Int. on endowment	8,476 14
	Harper Bros.....	Use of cuts bldgs. ....10.00	
	E. A. Eggers	Sand for babies	3.16
	Wm. Turner.....	Lot No. 7 Adams Co.....20.00	
	E. A. Eggers	Rent to June 30, 1897.....37.50	
	W. W. Richardson.....	Acct rent Chapter house.....40.00	
	Lewis Boldman	Deed act of March 14, 1889.....2.00	
	Harriet Boldman	" " "	2.00
	Edward Orton, Jr.....	Chem. supplies.....42.33	
	B. F. Thomas.....	8-9-10 inst rent, 1896-7.....127.50	284 49
	Total receipts		349,009 13

STATEMENT II.

DETAILED STATEMENT OF DISBURSEMENTS BY F. W. PRENTISS, TREASURER, DURING FISCAL YEAR ENDING JUNE 30, 1897.

Date.	To whom paid.	On account of.	No.	Amount.
1896.				
July 3	D. M. Massie	Expenses to Col. to sign bonds	1	\$13 80
6	F. M. Senter, P. M.	500, 2c.-500 1c. stamps.....	2	15 00
7	W. I. Chamberlain	Expenses trustee	3	14 55
8	Wm. Marsh	164 hours labor.....	4	24 60
	Eugene Marsh.....	170½ hours labor.....	5	25 58
	Engelke & Bigelow.....	Hauling as per bills	6	10 04
	Payne & McDonald	Bolts	7	32
	Tallmadge H'dware Co..	Hardware	8	2 24
	Joseph Braun	Estimate No. 2 on reservoir...	9	805 60
	F. M. Fornof	Est. No. 1 boiler & power ho'se	10	4,113 00
	W. C. Lind	Levels and lines on reservoir..	11	17 10
	Walter Chantler	93½ hours work at 15c.....	12	14 03
	Marion Peck	197 hours labor at 15c.....	13	29 55
	Wm. Golding.....	137½ hours labor at 15c.....	14	20 63
	S. T. Knight.....	Estimate No. 2 tunnel	15	707 15
	George Trowbridge.....	Work for power plant.....	16	2 50
	C. C. Woodruff	Work for power plant.....	17	3 89
	The Enquirer Co	Adv. prop. for purchase of ctf's	18	15 90
	Leader Printing Co.....	Adv. notice of sale	19	12 40
	O. T. Corson.....	Adv. in Ed. Monthly, April, May, June and July	20	30 00
	The O. S. Journal Co ...	Adv. proposition for sale of bonds	21	11 92
	Nitschke Bros	Invitation cards and 19 an- nouncement programs	22	24 50
	"	Bulletins, letter heads, envel- opes, etc	23	320 75
	Plain Dealer Pub. Co.....	Adv. props. for building	24	7 15
	Champlin Ptg. Co.....	Ctf's. Eng. and Agr. depart- ment, vouchers and blanks..	25	19 50
	The Strobridge Litho.Co	Diplomas and law certificates.	26	90 00
	T. J. Godfrey	Expenses, meetings, July 7, 8, 1896	27	12 35
	The Taylor-Austin Co...	Zellers Eclecticisim, Greek Phylosophy.....	28	15 32
	Toledo Com'l Pub. Co ..	Adv. prop. for bonds.....	29	11 40
	Gertrude Kellicott.....	168 hours work in Library at 12½c	30	21 00
	C. E. Sherman.....	30 days work on relief map of Ohio	31	123 73
	C. L. Van Cleve.....	Advertising in Bulletin of Teachers Association	32	20 00
	L. B. Wing	Expenses, meetings Jan. 7, to July 7, 1896	33	77 83
	E. C. Green.....	256 hours labor at 15c	34	38 40
	C. H. Woodruff	4 hours carpenter work at 27½c	35	1 11
	Blackwood, Green & Co.	Mattocks, picks, shovels, etc...	36	7 80
	P. F. Yoerger	Silver lettered sign.....	37	7 00
14	G. F. Lasher.....	U. S. Of. Pos. Guide & Manual	38	1 50

STATEMENT II—Continued.

Date.	To whom paid.	On account of.	No.	Amount.
1896.				
July 8	A. J. Chantler	272 hrs. labor on camp's at 12½c	39	\$34 00
	A. G. McCall.....	69 " " "	40	8 75
	S. Sigler	160 " " "	41	20 00
	J. H. King	109 " " "	42	13 63
	C. G. Morrow.....	225 " " "	43	28 13
	F. G. Allen.....	45 " " "	44	5 63
	Wm. Gilmore.....	156 " " "	45	19 50
	H. Chantler	288 " " "	46	36 00
	J. B. McHenry.....	109 " " "	47	13 63
	J. W. Older.....	210 " " "	48	26 25
	C. P. Linville.....	21 " " "	49	2 63
	K. Nurian	53 " " "	50	6 63
	A. S. Seymour.....	10 " " "	51	1 25
	E. E. Somermeier	20 " " "	52	2 50
	W. S. Minkler.....	37 " " "	53	4 63
	H. S. King	18 " " "	54	2 25
	C. S. Hawley	112 " " "	55	14 00
	W. H. Scott.....	10 " " "	56	1 25
	John Condert.....	73 hrs. labor on campus, man and team at 30c.....	57	21 90
	H. S. King	Labor on grounds	58	4 28
	Engelke and Bigelow...	F't and hauling as per bills...	59	36 60
	Lewis Fink.....	Painting and papering.....	60	25 00
	Ben. Potts	Hose, couplings, etc	61	11 03
	J. L. Lockhart.....	Boiler scales.....	62	49 00
	O. E. Becker	Inspection arc lamps	63	2 70
	Tallmadge Hdw. Co.....	Hardware	64	17 48
	Tallmadge Hdw. Co.....	"	65	10 78
	Neski & Huffman.....	Plumbing	66	17 80
	Blackwood Green & Co.	Repairing gutters.....	67	8 17
	Chas. Woodruff.....	55½ hrs. carpenter wk. at 27½ c.	68	15 42
	So. Park Com'nrs	10 electric light posts.....	69	150 00
	E. L. Aldrich	2½ hrs. plant work	70	40
	H. H. Gallehen	8½ " "	71	85
	Geo. Trobridge.....	28½ hrs. carp. work at 27½c.....	72	7 12
	Engelke & Bigelow.....	F't and hauling as per bills.....	73	14 65
	E. S. Wilson.....	Exp. open'g E. McMillin Obs..	74	7 35
	Frank Huddleson.....	8 hrs. work as guide.....	75	1 00
	D. C. Huddleson.....	56 " "	76	7 00
	R. J. Seymour	168 " "	77	20 00
	M. J. Persing	6½ " " at 12½ c.....	78	79
	C. B. Ginttard	48 " "	79	6 00
	Cherington Ptg & E. Co.	1 rubber stamp.....	80	25
	Murray & Co.....	Rent of tent used at comm.....	81	75 00
	Geo. Trobridge.....	25 hrs. carp. wk. at 27½ c	82	6 25
	C. H. Woodruff.....	71 " "	83	21 50
	E. E. Barnard	R. exp. open'g McMillin Obsv.	84	22 00
	W. U. Telegraph Co	Telegraph messages.....	85	2 45
	John Bowd.....	28½ hrs. labor, Commencement	86	4 28
	Yost and Packard	Drawing for re-mod. Pr. house	87	30 00
	H. Braun Sons & Co.....	10 gal. oil, lard and linseed ..	88	6 15
	Rev. D. M. Fisk.....	Bacc. address and expenses.....	89	23 70
	Col. Cabinet Co.....	Rent of chairs, commencement	90	29 78
	W. F. Hunter.....	Pstg. & hack hire, comm. spkr.	91	3 00
	F. Neddermeyer.....	Orchestra for commencement	92	38 00
	Oscar Lear	Ribbon for type-writer	93	1 00

STATEMENT II—Continued.

Date.	To whom paid.	On account of.	No.	Amount.
1896.				
July 8	O. S. U. Octette.....	Music opening observ.....	94	\$8 00
	F. Charles.....	Hauling books.....	95	75
	Chas. Hawley.....	Janitor work.....	96	13 50
	Col. Transfer Co.....	Carriage hire.....	97	3 00
	".....	".....	98	3 90
	Cent. U. Telephone Co..	Telephone rents, year ending Aug. 30, 1896.....	99	66 50
	Green, Joyce & Co.....	Ribbon for diplomas.....	100	22 65
	H. Cole.....	Thumb tacks.....	101	2 74
	Blackwood, Green & Co	1 wheel barrow.....	102	3 50
	Alexis Cope.....	Express charges paid and ex- penses to Portsmouth.....	103	17 60
	Mitchell Advertising Co	Depot time card, 4 months....	104	1 00
23	F. M. Senter, P. M.....	500 2c postage stamps.....	105	10 00
8	E. Kelton & Co.....	Lumber.....	106	20 99
	J. H. Randall.....	19 hrs. carpt. work, comm't ...	107	4 75
	Henry C. Lord.....	Expense of speaker, observ. opening.....	108	7 53
	Boston Book Co.....	Books as per bill.....	109	38 75
	Yardley & Harsh.....	Baskets for office.....	110	1 05
	P. B. Pearce.....	Books per invoice.....	111	22 25
	Willsey & Wood.....	".....	112	10 00
	Ginn & Co.....	".....	113	2 00
	R. R. Bowker.....	".....	114	15 00
	Jno. J. Janney.....	".....	115	40 00
	Library Bureau.....	2 acct. books lettered.....	116	7 50
	H. H. Ballard.....	File and postage.....	117	60
	Nitschke Bros.....	Letter heads and envelopes ...	118	5 50
	Boston Book Co.....	Books per invoice.....	119	3 00
	Lemcke & Buechner...	".....	120	7 87
	Lea Bros. & Co.....	".....	121	3 00
	Spahr & Glenn.....	File wrapper.....	122	75
	C. C. Barrows.....	1 atlas.....	123	23 50
	Jas. Penn.....	Hauling books ..	124	75
	The Taylor Austin Co..	Books, per invoice.....	125	312 25
	G. E. Stechert.....	".....	126	376 43
	Henry Seraphim.....	Binding books, per invoice....	127	147 55
	Knauth, Nachod and Kuhne.....	Books as per invoice, Otto Harrossowitz.....	128	5 19
	Bissel, Dodge & Erner .	Electrical supplies.....	129	7 96
	B. D. Potts.....	24 ½ nipples.....	130	72
9	Tallmadge Hdw. Co.....	Hardware.....	131	3 99
	Col. Paint Co.....	Paint, oil and varnish.....	132	4 60
	Jeffrey Mfg. Co.....	Apparatus elec. dept.....	133	7 72
	J. R. Spurrier.....	Work in ".....	134	8 55
	F. C. Caldwell.....	Cash paid for work in elect. department.....	135	15 00
	E. S. Aldrich.....	26 hours work in elect. dept....	136	2 60
	O. A. Davis.....	30 hours labor.....	137	3 60
	H. Judd.....	Work for elect. dept.....	138	60
	H. H. Galleher.....	12½ hours elec. lab.....	139	1 25
	H. S. Riddle.....	8 hrs. labor @ 10c in elec. lab..	140	80
	F. C. Caldwell.....	Money pd. 32 hrs. lbr. " ..	141	4 75
	Nitschke Bros.....	Letter heads and envelopes ...	142	2 10
	Dunn, Taft & Co.....	Apparatus for observatory.....	143	4 92
	Mills & Goddard.....	Plans for repairing barn.....	144	10 00

STATEMENT II - Continued.

Date.	To whom paid.	On account of.	No.	Amount.
1896				
July 9	Blackwood, Green & Co	Hdw. used for repairing barn..	145	\$19 78
	Dundon & Bergin.....	Lumber used " "	146	159 25
	Col. Sewer Pipe Co.....	37 ft. sewer pipe.....	147	3 70
	Weinman Mch. Wks.....	Supplies for barn	148	4 50
	John Condert.....	12 hrs. labor man and team....	149	3 60
	A. F. Wilcox.....	Carpenter work on barn.....	150	50 00
	O. R. Flynn.....	Asst. in chemistry.....	151	12 00
	Robt. Fisher.....	" "	152	8 00
	G. E. Stechert.....	Books per invoice.....	153	6 87
	Cherrington Ptg. Co.....	Rubber stamp.....	154	1 00
	Pope Bros.....	Engraving copper seal.....	155	20 00
	Standard Oil Co.....	1 bbl. oil.....	156	4 64
	Tallmadge Hdw. Co.....	Hardware.....	157	85
	G. E. Stechert.....	Books per invoices.....	158	7 80
	Kilbourne & Jones Co.....	Apparatus dept. physiology...	159	4 00
	F. A. Ward, Treas.....	1 male skel'n, " "	160	62 00
	Richards & Co.....	1 Centrifuge, " "	161	20 00
	Cap. City Mch. Wks.....	Drawer locks, " "	162	1 00
	H. Cole.....	50 yds. B. P. paper, hydrom'ter	163	7 75
	Col. Supply Co.....	Fittings	164	95
	Franklin Toilet Co.....	Supplies, dept. mech. eng.....	165	3 50
	Cap. City Mch. Wks.....	Castings, much. eng. dept.....	166	8 28
	H. Braun, Sons & Co.....	Apparatus, vet. dept.,	167	1 35
	Blackwood, Green & Co	" "	168	3 92
	Engelke & Bigelow.....	Hauling, as per bill.....	169	39 25
	Franklin Fuel Co.....	55 tons lump coal.....	170	97 68
	Kelton & Converse.....	Lumber supplies, phys. lab.....	171	2 22
	Tallmadge Hdw. Co.....	Hdwe. " "	172	1 19
	B. F. Thomas.....	1 Crookes tube, dept. ph.....	173	8 00
	C. H. Woodruff.....	16 hrs. carp. wk. phys. lab. @ 29½	174	4 44
	Aylsworth & Jackson....	1 Fluroscope, dept. phy.....	175	22 00
	Andrew Earl.....	Lumber.....	176	27 55
	W. A. Kellerman.....	Expense, collecting specimens	177	26 64
	Mrs. D. A. Crowner.....	Clerical ass't dept. agr.....	178	12 00
	W. S. Powell.....	Instructing band.....	179	25 00
	Schilling Fdy. Co.....	Iron supplies.....	180	2 32
	Kelton & Converse.....	Lumber.....	181	88 33
	Payne & McDonald.....	Hardware.....	182	1 60
	W. F. Kelley.....	No. 1, Edison mimeograph...	183	10 00
	H. Cole.....	Supplies, dept. civ. eng.....	184	8 90
	Col. Transfer Co.....	31 loads manure.....	185	31 00
	C. K. McClelland.....	Work in lab.....	186	2 75
	Maud Jeffrey.....	180 hrs. labor in library.....	187	22 50
	Lloyd Williams.....	4 hrs. wk. in library, @ 12½.....	188	50
	G. S. Marshall.....	Work in library.....	189	5 00
	Blackwood, Green & Co	Hardware	190	24 95
	Edwin Kelton & Co.....	Lumber.....	191	3 00
	Franklin Fuel Co.....	26,000 lbs. lump coal.....	192	24 16
	Jacob Weisheimer.....	Corn and cob meal.....	193	75 44
	A. W. Livingstons Sons	Seeds.....	194	5 77
	Benj. Rushmer & Sons..	Blacksmithing, dept. agr.....	195	25 80
	Spahr & Glenn	Printing diplomas, etc.....	196	54 75
14	W. F. Hunter	Bal. due, Dean. law. sch. year ending 30 June, 1896	197	269 48
	G. K. Nash.....	24 lectures, law. sch. @. 75323.	198	18 13

STATEMENT II.—Continued.

Date.	To whom paid.	On account of.	No.	Amount.
1896.				
July 9	J. H. Collins.....	15 Lec. law school @ .75323	199	\$ 11 35
	I. N. Abernathy.....	6 " " @ \$2.50		
		83 " " @ .75323	200	77 57
	D. F. Pugh.....	99 " " @ .75323	201	74 62
	Paul Jones.....	54 " " " "	202	40 72
	G. W. Knight.....	76 " " " "	203	57 30
	O. W. Aldrich.....	230 " " " "	204	173 29
	E. O. Randall.....	134 " " " "	205	100 98
24	W. I. Chamberlain.....	Expenses att'g meet'g this day	206	13 90
25	John E. Adams.....	Salary for July 1896.....	207	40 00
	F. B. Brewer.....	" " " "	208	40 00
	C. W. Burkett.....	" " " "	209	60 00
	W. R. Beattie.....	" " " "	210	40 00
	C. B. Hine.....	" " " "	211	45 00
	Jean Blackford.....	" " " "	212	50 00
	Edith M. Cockins.....	" " " "	213	50 00
	W. C. McCracken.....	" " " "	214	100 00
	Chas. Low.....	" " " "	215	50 41
	James Kelly.....	" " " "	216	41 67
	John Conrad.....	" " " "	217	40 00
	W. Whitestone.....	" " " "	218	45 00
	Mrs. D. A. Crowner.....	" " " "	219	9 00
	Wash Townsend.....	" " " "	220	40 00
	Benj. LeBay.....	" " " "	221	45 00
	Wm. Standley.....	" " " "	222	45 00
	Thos. Bonde.....	" " " "	223	45 00
	E. F. Coddington.....	Sal. as jan. observ. July 1896	224	20 00
	A. F. Wilcox.....	Carp. work on barn.....	225	30 00
28	Jas. H. Canfield.....	Salary for July 1896.....	226	500 00
	F. W. Prentiss.....	" " " "	227	33 33
	Alexis Cope.....	" " " "	228	187 50
	W. K. Morehead.....	" " " "	229	50 00
	".....	Expenses and collections.....	230	201 53
	F. B. Pearson.....	Ten hours teaching.....	231	15 00
Aug. 4	Mary H. Cope.....	Services as clerk 7-10 to 7-31	232	28 50
	Ira H. Miller.....	" " " "	233	52 30
	Gear Cut Rub'r S. Wks.	Rubber stamp.....	234	2 50
	U. B. Pub'g House.....	Specification books.....	235	35 00
	Murray & Co.....	Cash freight on tent ret'd.....	236	15 17
	H. W. Phlegar & Co.....	1 Telephone directory.....	237	2 50
	R. P. Hayes.....	150 certificates of indebtedness	238	295 00
	Col. Transfer Co.....	Hauling.....	239	1 00
	Am. Dist. Teleg. Co.....	Messages.....	240	1 45
	Jas. Penn.....	Hauling books.....	241	50
	India Alkali Works.....	House savogran.....	242	18 40
	Z. L. White & Co.....	Dry goods.....	243	2 20
	Monypenny, Hammond	& Co. 2 dozen brooms.....	244	4 50
	Beech Mop, Pail & W.Co.	6 mop pails @ \$1.25.....	245	7 50
	Cherrington P. & E. Co...	Rubber stamp.....	246	25
	R. L. Polk & Co.....	1 copy city directory 1896.....	247	5 00
	A. H. Smythe.....	Books, stationery, etc.....	248	24 30
	Kelton & Converse.....	Lumber.....	249	3 97
	R. J. Seymour.....	Services as guide.....	250	17 25
	Engelke & Bigelow.....	Hauling.....	251	41 82
	West. U. Teleg. Co.....	Messages.....	252	3 19
	Alexis Cope.....	200 10-cent stamps.....	253	20 00

STATEMENT II—Continued.

Date.	To whom paid.	On account of.	No.	Amount.
1896.				
Aug. 5	S. T. Knight.....	Final estimate for tunnel.....	254	\$248 14
	Jos. Braun	Estimate No. 3 on reservoir...	255	769 50
	Jeffrey Mfg. Co.....	Estimate No. 1, conveyer	256	1,080 00
	F. M. Fornof.....	Estimate No. 1, boiler and power building.....	257	7,308 43
	Col. Supply Co.....	Est. No. 1, pipes and fittings..	258	1,200 00
	Cap. City Machine Wks	Bolts and castings, etc.....	259	59 89
	B. D. Potts	Pipes, etc.....	260	7 50
	Schoedinger, Fearn & Co	Lantern, globes, etc.....	261	1 60
	Col. Supply Co.....	Pipes and fittings.....	262	34 86
	W. G. Minkler.....	225 hours work sup. reservoir construction	263	33 75
	Eugene Marsh.....	80 hours work @ 15 cents	264	12 00
	Henry Chantler	270 " "	265	40 50
	Marion Peck.....	80 " "	266	12 00
	Ed. Morris.....	30 " "	267	4 50
	Joseph Braun.....	Stone foundation for boilers..	268	65 00
	J. H. Randall.....	33 hours work @ 25 cents.....	269	8 25
	C. A. Woodruff.....	Carpenter work, etc.....	270	20 55
	G. F. Trowbridge	Work for power plant	271	11 25
	Herman Haerlein.....	Landscape gardening	272	168 70
	H. Chantler	Labor on campus	273	23 78
	F. S. Johnson.....	"	274	7 80
	C. A. Clawson	143 hrs. labor on campus @ 15c	275	21 45
	C. Richards	90 hrs. work on campus @ 12½c	276	11 25
	H. S. King	28 hrs. wk. on cmp. July, @ 12½c	277	3 50
	D. A. Givens	50 " "	278	6 25
	A. J. Chantler	219 " "	279	27 38
	C. S. Hawley.....	72 " "	280	9 00
	W. A. Patterson	10 hrs. labor on campus @ 30c	281	3 00
	J. W. Everal.....	Tile and hauling same.....	282	33 20
	J. W. Hale	20 hours labor, man and team, @ 30 cents	283	6 00
	J. M. Seaman	21 hours labor, man and team, @ 30 cents	284	6 30
	C. G. Morrow.....	Labor on campus during July	285	35 03
	Chas. Mooney	" "	286	23 72
	Wm. Gilmore.....	" "	287	22 91
	W. A. Huff.....	" "	288	18 45
	F. A. Hogue.....	" "	289	17 63
	Richards & Co.....	Filters.....	290	3 00
	Kimball & Mathews.....	Photo supplies	291	7 00
	H. Cole	B. P. paper	292	2 75
	Kauffman-Lattimer Co..	Drugs and chemicals.....	293	47 23
	Freda Detmers.....	Copying labels 18½ hrs. @ 15c	294	2 75
	John L. Tranger.....	Pamphlets.....	295	18 00
	H. E. Brown & Sons....	Descriptive sheets and reports	296	8 00
	Barrow Pict. Frame Co..	2 frames @ \$2.30.....	297	4 60
	Payne M'Don'd Hdw. Co	Hardware	298	9 99
	A. F. Wilcox.....	Est. No. 1, add. to Bot. Hall ..	299	144 00
	Col. Sewer Pipe Co.....	Sewer pipe	300	11 53
	C. S. Hawley.....	Work in library, Jan. work	301	16 25
	Lucy Allen	28 hrs. work in library @ 12½c.	302	3 50
	Marion Peck.....	77½ hours work @ 15 cents.....	303	11 63
	Eugene Marsh.....	111½ " "	304	16 73
	Walter Chantler.....	10 " "	305	1 50
	Ed. Morris.....	70 " "	306	10 50

STATEMENT II--Continued.

Date.	To whom paid.	On account of.	No.	Amount.
1896.				
Aug. 5	Robt. Mills.....	9 hrs. @ 45c, mason work.....	307	\$4 05
	C. H. Woodruff.....	Carpenter work.....	308	22 91
	J. H. Randall.....	".....	309	17 75
	G. T. Trowbridge.....	".....	310	11 75
	Stitt, Price & Co.....	Cement.....	311	5 90
	The Hanna Paint Mfg. Co.....	Paints and oils.....	312	6 20
	Schoedinger, Fearn & Co.....	Hardware.....	313	68
	Tallmadge Hdw. Co.....	".....	314	8 16
	Blackwood, Green & Co.....	".....	315	7 86
	Kelton & Converse.....	Lumber.....	316	24 80
	B. D. Potts.....	Pipe and fittings, etc.....	317	28 83
	Sandusky Furn. Co.....	Furniture, Lake lab.....	318	17 10
	Foster & Graves.....	Hardware.....	319	2 55
	G. A. Butler & Co.....	Lumber.....	320	4 90
	J. A. Sheffield.....	7 days carp. work @ \$2 per day.....	321	14 00
	G. R. Prout & Co.....	Furnishing Lake lab.....	322	2 55
	D. S. Kellicott.....	Exp. equip. ".....	323	14 08
	H. Brann & Co.....	Jars and bottles.....	324	57 91
	T. J. Godfrey.....	Expenses, Com. meeting, Aug. 4-5, 1896.....	325	12 25
	H. E. Brown & Sons.....	Class cards.....	326	1 40
	Nitschke Bros.....	Printing, etc., bulletins.....	327	104 25
19	Alexis Cope.....	Cash paid for automatic paper fastener.....	328	2 00
5	Henry Seraphim.....	Blank books.....	329	17 00
	McClelland & Co.....	Paper, etc.....	330	18 55
	Blackwood, Green & Co.....	Varnish cups.....	331	1 45
	Tallmadge Hdw. Co.....	Hardware.....	332	12 05
	Blackwood, Green & Co.....	" oils, etc.....	333	5 95
	Ch'rri'gt'n Ptg. & Eng. Co.....	Autograph stamp.....	334	2 50
	Franklin Ptg. Co.....	Printing blanks.....	335	8 30
	Dundon & Bergin.....	Lumber.....	336	2 68
	Co umbus Buggy Co.....	Repairs, carriage.....	337	5 75
	Edward Orton.....	Geological specimens.....	338	30 40
	Prof. E. H. Barbour.....	7 boxes of fossils.....	339	50 00
	Geo. Feick & Co.....	Labor on Lake laboratory.....	340	425 00
	Franklin Ptg. Co.....	Stationery and printing.....	341	27 95
	Penn. Fuel Co.....	Gas, coal.....	342	69 73
	W. E. Lovejoy.....	Lumber.....	343	9 39
	Col'bus Wire Iron Wks.....	Stall guards.....	344	15 00
	W. F. Lavery.....	Labor.....	345	25 00
	C. G. Anderson & Son.....	10 window screens, Observ.....	346	12 00
14	W. I. Chamberlain.....	Exp. att'g meeting this day.....	347	12 25
	John T. Mack.....	".....	348	20 25
17	Yost & Packard.....	Repairs, Hayes Hall.....	349	197 47
	".....	Services as architects.....	350	695 00
18	Columbus Gas Co.....	Gas to July 29, 1896.....	351	15 75
	Berlin Ptg. Co.....	Ptg. 400 specifications.....	352	66 75
	E. C. Green.....	Labor on campus, 140 h. @ 15c.....	353	21 00
	S. T. Knight.....	Est. No. 1, brick for heating and piping Towns Hall.....	354	150 00
	The Fish Stone Co.....	Stone.....	355	25 00
	Wheeler Cond. & Eng. Co.....	Wheeler condenser.....	356	900 00
	Paul Steam Sys. Co.....	Spec. reducing valves, etc.....	357	457 27
	C. M. Waid.....	Labor, rep. wag. shed, hort. dep.....	358	11 72
	Payne, McDonald & Co.....	Hardware.....	359	8 78
	Kelton & Converse.....	Lumber.....	360	4 50

STATEMENT II— Continued.

Date.	To whom paid.	On account of	No.	Amount.
1896.				
Aug. 18	F. M. Senter, P. M.....	Spec. deposit 2nd class matter	361	\$ 10 00
22	Edith D. Corkins.....	Salary for August, 1896.....	362	50 00
25	F. M. Senter, P. M.....	60 10 cent stamps.....	363	6 00
29	C. W. Burkett.....	Salary for August, 1896.....	364	60 00
	Jas. H. Canfield.....	" ".....	365	500 00
	Alexis Cope.....	" ".....	366	187 50
	F. W. Prentiss.....	" ".....	367	33 33
	Jean Blackford.....	" ".....	368	50 00
	W. C. McCracken.....	" ".....	369	100 00
	Chas. Low.....	" ".....	370	57 91
	Thos. Bonde.....	" ".....	371	45 00
	Jas. Kelly.....	" ".....	372	41 67
	Wm. Whitestine.....	" ".....	373	45 00
	F. B. Brewer.....	" ".....	374	40 00
	John E. Adams.....	" ".....	375	40 00
	John Conrad.....	" ".....	376	40 00
	Wash. Townsend.....	" ".....	377	40 00
	Wm. Standley.....	" ".....	378	45 00
	Benj. LeBay.....	" ".....	379	45 00
	E. F. Coddington.....	" ".....	380	20 00
	E. M. Wilcox.....	Salary for July and Aug., 1896	381	50 00
	F. M. Senter, P. M.....	Stamps, 100 2c, 200 1c, 20 5c...	382	5 00
	C. B. Hine.....	Salary for August, 1896.....	383	45 00
	Geo. R. Rose.....	" from August 15, 1896...	384	32 50
31	W. K. Moorehead.....	Salary for August, 1896.....	385	50 00
	W. R. Beattie.....	" ".....	386	50 00
	Mary H. Cope.....	Ass't as Cl'k, Aug. 1 to 31, 1896	387	39 00
Sept. 1	W. I. Chamberlain.....	Exp. atte'd'g meeting this day	388	13 75
2	Kelton & Converse.....	Lumber.....	389	1 52
	C. A. Farringer.....	Pipes, fittings, etc.....	390	19 50
	Tallmadge Hdw Co.....	Hardware.....	391	4 13
	Col. Supply Co.....	Pipe and fittings, etc.....	392	31 78
	C. E. Beller.....	Painting and glazing.....	393	24 00
	J. Schonthal.....	Merchandise.....	394	1 25
	Bissell, Dodge & Erner..	Electrical supplies.....	395	101 19
	B. D. Potts.....	Pipes and fittings.....	396	98 29
	Blackwood, Green & Co..	Hardware.....	397	204 71
	W. J. Davidson.....	Hauling.....	398	75
	Andrew Earl.....	Lumber, m'ldings and casings	399	41 70
	Tallmadge Hdw Co.....	Hardware.....	400	7 28
	E. C. Green.....	Constr. of new greenhouse....	401	33 00
	G. T. Trowbridge.....	180½ hours carp. work @ 25c...	402	45 12
	C. A. Oare.....	Labor on observ. and dorm.....	403	45 60
	J. H. Randall.....	180½ hours carp. work @ 25c...	404	45 12
	C. H. Woodruff.....	158 " " 27 7-9.....	405	44 02
	Kelton & Converse.....	Lumber.....	406	144 74
	Tallmadge Hdw Co.....	Hardware.....	407	15 89
	Col. Bolt Works.....	Hardw'e, bolts, washers.....	408	4 60
	Col. Paint M'fg Co.....	Oil.....	409	45
	Neski & Hufmann.....	Bath tubs, labor, repairs, etc..	410	198 00
	City Plumbing Co.....	Plumbing.....	411	9 85
	Batterson Dec. House.....	Painting and papering.....	412	231 30
	Geo. Bricker.....	Top out c'mney, Towns. house	413	2 50
	J. S. Abbott & Co.....	Hardware.....	414	15 03
	O. A. Davis.....	109 h's w'k @ 12½, st. car f'e 20c	415	13 83
	W. B. Kirkpatrick.....	60 hours work @ 10c.....	416	6 00
	C. O. Fraser.....	49½ " " 12½c.....	417	6 18

STATEMENT II—Continued.

Date.	To whom paid.	On account of.	No.	Amount.
1896. Sept. 2	L. E. Jennings	35 hrs. work @ 12½c	418	\$4 37
	H. M. Biebel	99 " "	419	14 85
	Geo. Martin	60 " @ 10c, st. car fare		
		10c	420	6 60
	J. R. Spurrier	114½ hrs. work @ 17½c	421	20 03
	J. V. Date	52 " " 1½c	422	6 50
	A. L. Buckman	58 " " 15c	423	8 70
	M. Peck	12 days labor @ \$1.50 per day ..	424	18 00
	John Hawkins	10 " " " " ..	425	15 00
	Ed Morris	12 " " " " ..	426	18 00
	J. J. Gheen	Repairing, plastering, etc.	427	141 75
	Cap. City Mch. Works ..	Castings	428	3 60
	H. Braun Sons & Co.	5 gals. turpentine	429	2 00
	Yost & Packard	Serv. as architects, Armory ..		
		\$1,389.40, Biolog. Bldg. \$714. ..	430	2,103 50
	Peters Burns-Pretzinger ..	Plans and spec. Agr. Bldg, 2½% ..		
		lowest bid	431	1,739 45
	D. M. Massie	Expenses July 16, September ..		
		1 and 2	432	26 60
	T. J. Godfrey	Expenses meeting September ..		
		1 and 2, 1896	433	7 35
3	Tallmadge H'rdware Co.	Hardware	434	3 76
	Tracy Wells Co.	Maps, sponges, ladders, etc.	435	14 75
	Schoedinger, Fearn & Co.	Set stocks and dies	436	14 50
	Col. Supply Co.	Stillson wrenches	437	3 20
	Lewis Fink	Painting and stripping card ..		
		board	438	5 00
	C. S. Hawley	Night watch'g 7 nights, \$1.50; ..		
		20 hrs. janitor @ 12½c	439	19 25
	"	64 hs. w'k in library @ 12½c ..	440	8 00
	"	97 hrs. Campus work @ 12½c ..	441	12 12
	D. C. Huddleson	62 " w'k in library "	442	7 75
	Col. Post Office	1,000 enve opes (stamp'd ret'n) ..	443	22 16
	H. C. Chapin	4½ days @ \$1	444	4 50
	R. L. Polk & Co.	1 copy Col. Directory, '96	445	5 00
	A. H. Smythe	Cleaning two typewriters	446	5 00
	Cent. O. Oil Co	Oil	447	22 67
	D. H. Baldwin & Co.	Cartage of piano from Chapel ..	448	3 00
	McClelland & Co.	Pins, p't protectors, blotters, ..		
		etc.	449	2 57
	Standard Oil Co	Oil	450	3 98
	Monypenny-Ham'nd-Co	Parafine, candles, soap	451	4 60
	G. A. Flickinger	120 hrs. w'k on Campus @ 15c ..	452	18 00
	Cent. U. Telephone Co.	Messages	453	2 60
	U. S. Express Co	Fr't on box from Barnesville ..	454	35
	R. L. Allbritain	Mailing list Supt. and Prin.		
		High Schools	455	3 00
	W. U. Telegraph Co.	Messages	456	1 29
	D. C. Huddleson	Work in executive office	457	19 62
	H. E. Alvord	Bust of Senator Morrill	458	45 00
	R. J. Seymour	Work from August 20 to 29, ..		
		48 hours	459	6 00
	Eugene Marsh	26 days work @ \$1.50	460	39 00
	Frank Huddleson	Work in executive office	461	4 50
	C. H. Woodruff	5½ hrs. carp. w'k at 27½c	462	1 53
	C. W. Waid	193 " w'k on Campus @ 15c ..	463	28 95
	D. C. Huddleson	67 " " @ 12½c	464	8 38
	Col. Macadam Co	Crushed stone	465	169 27

STATEMENT II—Continued.

Date.	To whom paid.	On account of	No.	Amount.
1896.				
Sept. 2	J. L. Oldham	30 hours work on Campus, @ 12½ c.	466	\$3 75
	J. M. Leaman.....	210 hrs. wk., man and team, @ 30c, 34 hrs. @ 12½c.	467	67 25
	Lee McFarland.....	43 hrs. wk. on Campus, @ 12½c.	468	5 38
	F. H. Huddleson	115 " " " 10c.	469	11 50
	Carl Wiseman	15 " " " 12½c.	470	1 88
	F. S. Johnston	34 " " " 15c.	471	5 10
	C. A. Frazer	45 " " " 12½c.	472	5 62
	A. A. Grimm	15 " " " "	473	1 88
	Geo. A. Tavner.....	94 " " " "	474	11 75
	H. E. Wright.....	17 " " " "	475	2 13
	W. R. Price.....	26 " " " "	476	3 25
	W. Conley.....	51 " " " "	477	6 38
	F. Rubins	55 " " " "	478	6 88
	C. A. Clawson	99 " " " "	479	14 85
3	Spencer Sigler	179 " " " "	480	22 38
	C. G. Morrow	230 " " " "	481	28 75
	H. Chantler	250 " " " "	482	31 25
	F. R. Hogue	213 " " " "	483	26 63
	Wm. Gilmore	192 " " " "	484	24 00
	A. J. Chantler.....	226 " " " "	485	28 25
	J. V. Date.....	26 " " " "	486	3 25
	Chas. Mooney	232 " " " "	487	29 00
	H. S. King	180 " " " "	488	22 50
	Charlie Wilson	255 " " " 4c.	489	10 20
	E. E. Sommermeier	123 " " " 12½c.	490	15 38
4	Col. Express.....	Advertising	491	7 14
	Ed Orton, Jr.	1,000 1c. envelopes	492	11 08
	Nitschke Bros	4,000 pamphlets and 400 prize drill prog.	493	148 50
	O. S. Journal Co.	Advertising	494	7 14
	Logan McCormick.....	Picture mouldg. etc.	495	4 50
	Cin'ti Times Star-Co.	Adv. proposals.....	496	9 40
	Toledo Blade Co.	" " " "	497	13 90
	Enquirer Co.	" " for Agr. Bldg.	498	9 40
	Champlin Ptg. Co.	100 prop. blanks, Towns Hall, 500 postals	499	9 50
	Nitschke Bros.....	Cards, catalogues, tablets, etc.	500	315 25
	Webb Stat'ry & Ptg. Co.	Bond register	501	40 00
	The Berlin Ptg. Co.	Forms of propos'ls & envelopes	502	15 00
	The Westbote Ptg. Co.	Adv. sealed proposals	503	9 00
	U. B. Pub. House.....	50 large envelopes	504	1 00
	The Lantern	Advertising	505	25 00
	Orr & Sennbower.....	1, 8x8 Vert. engine.....	506	137 50
	S. T. Knight.....	Estimate No. 2, Tunnel, Towns. Hall.....	507	1,995 00
	J. I. Braun	Foundation new boiler.....	508	84 00
	W. G. Minkler.....	180 hrs. work @ 15c	509	27 00
	The Reliance Gauge Co.	2 No. 5 Reliance J. W. Cols. trimmer	510	40 00
	J. H. Randall	6 hrs. carp. work @ 25c.....	511	1 50
	T. B. Algeo.....	13 days, @ \$1.50 per day	512	19 50
	L. Williams	17 days labor @ \$1.50	513	25 50
	Walter Chantler	19 " " " "	514	28 50
	Wm. Lavery.....	25 " " " "	515	37 50
	Ed Chandler	24½ " " " "	516	36 75
	C. H. Irvin.....	21 " " " "	517	31 50

STATEMENT II—Continued.

Date.	To whom paid.	On account of.	No.	Amount.
1896.				
Sept. 4	Ed. Morris.....	14 days labor @ \$1.50	518	\$21 00
	John Hawkins.....	15 "	519	22 50
	M. Peck.....	14 "	520	21 00
	C. H. Woodruff	33½ hrs. carp. wk. @ .27½	521	9 33
	Geo. Trowbridge.....	7½ " @ .25	522	1 87
	Kelton & Converse.....	Lumber	523	2 44
	Jos. Braun.....	Final est. for reservoir.....	524	157 35
	Paul Steam System Co..	Air valves and reducing valves	525	189 03
	Cap. City Mch. Wks.....	Bolts, washers, etc.....	526	18 63
	Col. Supply Co.....	Pipes and Fittings.....	527	154 64
	The New Col. Bridge Co	Taking down, removing stack	528	40 60
	Col. Sewer Pipe Co.....	Sewer pipe.....	529	11 45
	Engelke & Bigelow.....	Frt. and hauling.....	530	166 31
	Hann & Adair.....	Ptg. letter & note hds. and env.	531	8 35
	W. G. Minkler.....	11 hrs. wk. @ .12½c.....	532	1 37
	Kelton & Converse.....	Lumber	533	4 20
	G. T. Trowbridge.....	9 hrs. carp. wk. @ .25	534	2 25
	Bausch-Lomb Opt. Co..	Cabinet, bottles, cedar oil, etc	535	13 43
	Wards Nat Science Est.	Model of Brani.....	536	6 50
	G. E. Stechert.....	Kiepert map of Roman Emp..	537	6 10
	W. H. Scott.....	Exp. chgs. on brain model....	538	60
	Keuffel Esser Co	10 draw'g tables @ \$8.50.....	539	85 00
	Engelke & Bigelow.....	Frt. and cartage.....	540	7 55
	Engelke & Bigelow.....	Frt. and cartage.....	541	87
	E. S. Greeley & Co.....	50 Daniel battery zincs.....	542	11 55
	Tallmadge Hdw. Co.....	Hardware	543	65
	"	Bolts	544	36
	C. H. Woodruff.....	16 hrs. carp. wk. @ .29½	545	4 44
	Andrew Earl.....	Lumber	546	3 45
	A. L. Buckman.....	42 hrs. wk. @ .15	547	6 30
	Engelke & Bigelow.....	Cartage and freight.....	548	50
	F. M. Senter, P. M.....	Postage and stamps.....	549	8 60
	F. S. Johnston.....	32 hrs. sten. and typew'g @ 12½	550	4 00
	Kauffman Lattimer Co..	Chemicals	551	4 06
	C. E. Sherman.....	Service as engineer in tunnel.	553	24 25
	Cap. City Mch. Wks.....	Pipes, castings and fittings.....	554	63 25
	Col. Supply Co.....	Pipes and fittings.....	555	51 00
	Franklin Ptg. Co.....	Special ruled blanks.....	556	6 25
	M. E. Schrock.....	Hayrack and fixtures	557	13 61
	Col. Wire Iron Wks.....	Galv. cloth, etc.....	558	24 98
	A. W. Livingston's Sons.	Seeds.....	559	19 40
	F. Ruhlen.....	Load of corn.....	560	20 89
	Nitschke Bros.....	Envelopes, letter heads, etc....	561	19 95
7	F. M. Fornof.....	Est. No. 3 boiler & pow'r house	562	4,094 42
	Jeffrey Mfg. Co.....	" No. 2 conveyer	563	1,530 00
	Nichol & Carr.....	" No. 1 entire work chappel	564	1,309 50
	A. F. Wilcox	" No. 2 " bot. bldg.	565	388 80
19	F. M. Senter, P. M.....	200 3c., 300 1c., postage stamps.	566	7 00
23	D. M. Massie.....	Expenses to date.....	567	19 35
	T. J. Godfrey.....	" meet'g Sept. 22, 1896	568	10 05
24	W. A. Kellerman.....	Salary for Sept., 1896.....	569	225 00
	Benj. Le Bay.....	"	570	45 00
	Wm. Standley.....	"	571	45 00
	Wash Townsend.....	"	572	40 00
	John Conrad.....	"	573	40 00

STATEMENT II—Continued.

Date.	To whom paid.	On account of.	No.	Amount.
1896.				
Sept. 25	C. W. Foulk.....	Salary for September, 1896.....	631	\$80 00
	S. A. Norton.....	" " " " " " " "	632	120 00
	Wm. McPherson.....	" " " " " " " "	633	180 00
	C. A. Bruce.....	" " " " " " " "	634	75 00
	B. L. Bowen.....	" " " " " " " "	635	225 00
	A. C. Barrows.....	" " " " " " " "	636	225 00
	R. I. Fulton.....	" " " " " " " "	637	120 00
	H. M. Biebel.....	" " " " " " " "	638	30 00
	F. C. Caldwell.....	" " " " " " " "	639	140 00
	T. K. Lewis.....	" " " " " " " "	640	60 00
	T. E. French.....	" " " " " " " "	641	100 00
	J. N. Bradford.....	" " " " " " " "	642	180 00
	C. E. Sherman.....	" " " " " " " "	643	100 00
	C. N. Brown.....	" " " " " " " "	644	225 00
	W. L. Evans.....	" " " " " " " "	645	40 00
	Edw. Orton, Jr.....	" " " " " " " "	646	180 00
	W. R. Beattie.....	" " " " " " " "	647	50 00
	E. M. Wilcox.....	" " " " " " " "	648	25 00
	E. F. Coddington.....	" " " " " " " "	649	30 00
	H. C. Lord.....	" " " " " " " "	650	150 00
	W. K. Moorehead.....	" " " " " " " "	651	50 00
	C. B. Morrey.....	" " " " " " " "	652	85 00
	A. M. Bleile.....	" " " " " " " "	653	225 00
	A. E. Vinson.....	" " " " " " " "	654	60 00
	H. A. Weber.....	" " " " " " " "	655	225 00
	C. W. Burkett.....	" " " " " " " "	656	70 00
	W. D. Gibbs.....	" " " " " " " "	657	140 00
	T. F. Hunt.....	" " " " " " " "	658	2 00
	Edw. Stalter.....	" " " " " " " "	659	20 00
	G. R. Rose.....	" " " " " " " "	660	65 00
	L. B. Wing.....	Exp. from July 24 to 9, 22-96, inclu.....	661	21 60
	W. K. Moorehead.....	Hughes collection archol. speci mens.....	662	300 00
	J. T. Martin.....	$\frac{1}{10}$ sal. Sept. inst., 1896.....	663	40 00
	A. C. Harvey.....	Salary for Sept., 1896.....	664	25 00
	A. L. Buckman.....	Services as janitor elect. lab., Sept., 1896.....	665	20 00
26	H. Judd.....	Services as janitor mech. lab., Sept., 1896.....	666	20 00
30	H. M. Ball.....	Salary for Sept., 1896.....	667	50 00
Oct. 1	F. M. Senter, P. M.....	500 2c stamps.....	668	10 00
3	Col. Gas Co.....	Gas for Sept., 1896.....	669	33 90
5	J. R. Spurrier.....	$\frac{1}{10}$ Salary Sept. inst., 1896.....	670	30 00
6	E. B. Kinkead.....	8 lectures during Sept., 1896.....	671	32 00
	D. E. Daniels.....	Services in org. P. G. class law school.....	672	30 00
7	Z. L. White & Co.....	Dry goods.....	673	10 50
	Hann & Adair.....	Paper, envelopes, letter heads	674	3 80
	Blackwood, Green & Co	Hardware.....	675	9 80
	R. L. Polk & Co.....	Fkl. Co. directory.....	676	2 00
	Cent. U. Telep. Co.....	Telephone service.....	677	56 00
	J. B. Parker.....	Janitor work bot. bldg.....	678	14 56
	Acme Dustalene Co.....	2 gal dustalene @ 65c.....	679	1 30
	Dunn, Taft & Co.....	Ribbon.....	680	1 10
	A. H. Smythe.....	Typewriter ribbon & repairs..	681	3 00

STATEMENT II—Continued.

Date.	To whom paid.	On account of.	No.	Amount.
1896.				
Oct. 7	D. V. Burkett.....	W'k done at Imf. Bureau Dpt..	682	\$10 12
	G. W. Carman.....	Annual dues N. W. Coll. Assn..	683	3 00
	Adams Express Co..	Freight.....	684	2 15
	Cent. O. Paper Co.....	Paper.....	685	11 50
	Postal Tel. Cable Co.....	Messages.....	686	33
	W. U. Telegraph Co.....	".....	687	7 09
	P. F. Yoerger.....	1 sign.....	688	1 75
	Fkl. Pk. Floral Co.....	Palms for decorations.....	689	5 00
	Tracy-Wells Co.....	Brooms, sponges, brushes, etc.	690	13 36
	Nitschke Bros.....	Penholders, hooks, ink, etc...	691	3 06
	Alexis Cope.....	Cash p'd for exp. charges, etc..	692	40 95
	C. K. McClelland.....	26 hrs. w'k in library @ 12½ ct.	693	3 25
	F. A. Huddleson.....	60 " " " "	694	7 50
	C. H. Irwin.....	63 " " " 15 ct.	695	9 45
	Mary H. Cope.....	Clerical w'k during Sept. 1896	696	40 00
	Jas. Stainbrooke.....	16 days work @ \$1.50.....	697	24 00
	D. C. Huddleson.....	28 hrs. w. @ 12½ ct, w. in ex. off.	698	7 62
	Jos. Barnaby.....	Work in office.....	699	1 75
	R. J. Seymour.....	184 hrs. work.....	700	22 00
	Press Post Ptg. Co.....	Advertising.....	701	9 50
	Nat'l Stockm'n Farm'r..	".....	702	50 40
	The Ohio Farmer.....	".....	703	33 92
	O. Soc. of Sur., Civ. Eng	".....	704	10 00
	A. N. Kellog N'spap'r Co	".....	705	70 00
	Franklin Ptg. Co.....	50 proofs.....	706	75
	Toledo Bee Co.....	Advertising.....	707	7 50
	Leader Ptg. Co.....	".....	708	6 40
	Plain Dealer Pub. Co.....	".....	709	13 55
	Com'l Tribune Co.....	".....	710	17 30
	Columbus Dispatch.....	".....	711	25 45
	Columbus Express.....	".....	712	10 50
	Champlin Ptg. Co.....	Circulars and blanks.....	713	5 30
	Nitschke Bros.....	Bulletins, stationery, etc.....	714	297 98
	The Westbote Co.....	Advertising.....	715	3 30
	News H. Pub. Co.....	".....	716	4 25
	B. Edwards & Co.....	".....	717	6 30
	Am. Grange Bulletin.....	".....	718	10 00
	Mast. Crowell & Co.....	".....	719	20 44
	C. W. Harper.....	Half-tone of Townshend Hall.	720	1 65
8	Orange Judd Co.....	Advertising.....	721	31 05
	The Peoples' Store.....	Chair seats.....	722	75
	The Kilbourne Jones Co	8 boxes nails.....	723	50
	Schoefferling Fearn Co..	Hardware.....	724	8 75
	H. Braun Sons & Co.....	Oil and plumbago.....	725	6 85
	B. D. Potts.....	Pipe and fittings.....	726	19 49
	Kelton & Converse.....	Lumber.....	727	53 10
	Tallmadge Hdw. Co.....	Hardware.....	728	44
	The Han'a Paint Mfg. Co	1 bbl. paint, 3 brushes.....	729	33 61
	The H. Mithoff & Co.....	Hardware.....	730	1 81
	J. S. Abbott & Co.....	Key blanks, etc.....	731	3 70
	C. E. Sherman.....	Services as engineer.....	732	26 25
	Col. Paint Mfg. Co.....	Gallon varnish.....	733	75
	Col. Edison E. Light Co	Insulators, etc.....	734	1 75
	Borger Bros. & Co.....	Repairing boilers.....	735	176 65
	Col. Brass Co.....	" hall check.....	736	25
	Babcock & Wilcox Co..	Tubes and nuts.....	737	60 52

STATEMENT II—Continued.

Date.	To whom paid.	On account of	No.	Amount.
1896.				
Oct. 8	Bissell, Dodge Erner & Co	Elect. supplies.....	738	\$406 70
	Neski & Huffman	Nipples, valves, pipes, etc.....	739	10 45
	Kinkade & Liggett	Elect. supplies and tools.....	740	11 95
	Batterson Deco. House.....	Papering and plastering	741	54 35
	H. S. King	49 hours ptg. at 15c, 2 pails at 15c	742	7 65
	E. E. Somermeier	46 "	743	6 90
	E. C. Greene.....	88 hours work at 15c.....	744	13 20
	S. C. Wilson.....	Team and hand, 6½ days.....	745	3 65
	G. T. Trowbridge	91 hours carpenter work at 25c	746	22 75
	Elij. H. Barton	11 " "	747	2 75
	J. H. Randall	52 " "	748	13 00
	C. H. Woodruff.....	Carpenter work	749	36 04
	J. R. Spurrier	170 hour's work at 20c	750	34 00
	F. C. Caldwell.....	Serv. as supt. Elect. works, etc.	751	123 45
	H. M. Biebel	155 hours plant work at 15c.....	752	23 25
	L. E. Jennings.....	89½ " "	753	11 19
	F. L. Estep.....	4 hours plant work at 10c car fare, 10c.....	754	50
	Geo. Martin	127 hours plant work at 12½c.....	755	16 08
	L. M. Hartwick.....	127 " " 20c.....	756	25 40
	H. L. Riddle	103 hrs. plant work at 12½c, car fare, 60c.....	757	13 48
	W. E. Chappeli	9 hours plant work at 10c.....	758	90
	O. A. Davis.....	187 hrs. plt wk. at 15c c. fare, etc	759	28 67
	F. M. Senter, P. M.....	500 2c, 500, 1c stamps.....	760	15 00
	A. E. Loeb	67½ hours plant work at 12½.....	761	8 44
	G. B. McNary.....	85 " "	762	10 62
	A. L. Buckman	60 " " 15c.....	763	9 17
	C. O. Fraser	30 " " 12½c.....	764	3 75
	C. Riddle	48 " " 10c.....	765	4 80
	Wm. Koest.....	19 " " 20c.....	766	3 80
	F. M. Foster	68½ " " 20c.....	767	13 70
	W. B. Kirkpatrick	115½ hours work at 12½.....	768	14 54
	F. M. Fornof	9 pieces elect. light poles.....	769	45 00
	S. T. Knight	Sewer and conduit	770	100 00
	Col. Supply Co	Pipe and fittings.....	771	100 64
	Payne McDonald Co	Hardware	772	119 09
	S. T. Knight	Est. No. 1 sewer for Towns. hall	773	465 50
	Blackwood, Green & Co..	Hardware	774	141 32
	Nichol & Carr.....	Est. No. 2 enlarge'nt of chapel	775	4,860 00
	C. M. Whipple	15 hours campus work at 12½.....	776	1 87
	K. Starbuck	10 " "	777	1 25
	F. W. Ditto.....	15 " "	778	1 78
	C. E. Lee.....	10 " "	779	1 25
	H. Goddard	10 " "	780	1 25
	A. C. Cole	5 " "	781	62
	J. V. Date	8 " "	782	1 00
	J. R. Reed.....	147½ " "	783	18 47
	L. Sigler	103 " "	784	12 87
	F. E. Wight	19 " "	785	2 38
	F. Rubins	158 " "	786	19 75
	Wm. Gilmore	113 " "	787	14 12
	H. Chantler	191 " "	788	23 87
	H. S. King	52½ " "	789	6 56
	W. R. Price.....	190½ " "	790	23 81
	W. Conley	149½ " "	791	18 68
	E. E. Somemeier	16 " "	792	2 00
	A. V. Chantler.....	244 " "	793	30 50

STATEMENT II—Continued.

Date.	To whom paid.	On account of	No.	Amount.
1896.				
Oct. 8	C. G. Morrow.....	188½ hrs. campus work @ 12½c	794	\$23 56
	W. Bettle.....	10 " " "	795	1 25
	C. E. Stone.....	10 " " "	796	1 25
	C. S. Hawley.....	9 " " "	797	1 12
	F. J. Tyler.....	91½ " " "	798	11 34
	A. G. McCall.....	43½ " " "	799	5 43
	W. P. Heacock.....	107 " " "	800	13 37
	Chas. Mooney.....	77½ " " "	801	9 72
	C. C. Hayden.....	37½ " " "	802	4 72
	Wm. Sparhawk.....	59½ " " "	803	7 47
	H. F. Morgan.....	60 " " "	804	7 56
	F. W. Schaeffer.....	54½ " " "	805	6 81
	J. O. Parsons.....	39 " " "	806	4 88
	D. Duncan.....	31½ " " "	807	3 90
	A. V. Nidy.....	39½ " " "	808	4 93
	A. B. Detchon.....	54½ " " "	809	6 78
	H. H. Loomis.....	47½ " " "	810	5 93
	E. H. Greenlee.....	12 " " "	811	1 50
	J. E. Alpeter.....	30½ " " "	812	3 84
	N. P. Oglesby.....	42 " " "	813	5 25
	E. M. Sharp.....	27 " " "	814	3 38
	P. E. Bryant.....	10 " " "	815	1 25
	F. L. Aten.....	11 " " "	816	1 37
	J. C. Brittan.....	15½ " " "	817	1 93
	J. R. Stimmel.....	13 " " "	818	1 63
	Wm. Galehouse.....	25 " " "	819	3 13
	I. S. Brown.....	19½ " " "	820	2 43
	G. A. Flickinger.....	141 " " 15c	821	21 15
	G. W. Clark & Co.....	Lumber.....	822	12 50
	Lewis Davis.....	20 rods woven wire fence, etc.....	823	15 60
	Col. Macadam Co.....	Crushed stone.....	824	493 40
	Kelton & Converse.....	Lumber.....	825	9 05
	Cap. City Paving Co.....	Artificial stone pavement and curbing.....	826	32 71
	C. H. Woodruff.....	12 hrs. carp. work @ 27 7-9c.....	827	3 33
	Geo. Trowbridge.....	9 " " 25c ..	828	2 25
	Whitney Elec. Inst. Co.....	Instruments.....	829	17 25
	Schoedinger, Fearn & Co.....	Screens, brackets, etc.....	830	1 96
	P. Hayden Sad. Hdw. Co.....	Brass castings, plates, etc.....	831	26 25
	Bissell, Dodge & Erner Co.....	Binding posts, mica, etc.....	832	2 75
	C. E. Gregory Co.....	Electrical supplies.....	833	12 90
	E. H. Barton.....	15 hrs. carp. work @ 25c.....	834	3 75
	Geo. Martin.....	38 " work @ 12½c.....	835	4 75
	L. M. Hartwick.....	21½ " " Elec. Lab. @ 20c.....	836	4 30
	W. E. Chappell.....	9 " " 10c.....	837	90
	H. S. Riddle.....	19½ " work @ 12½c.....	838	2 44
	A. E. Loeb.....	52½ " Lab. work @ 12½c.....	839	6 56
	F. L. Estep.....	5 " " 10c.....	840	50
Oct. 9	W. B. Kirkpatrick.....	19½ hours Laboratory work @ 12½c.....	841	2 44
	L. E. Jennings.....	15½ hours work @ 12½c; 23½ hours @ 15c.....	842	5 45
	Central Ohio Paper Co.....	Paper.....	843	7 68
	Columbus Gas Co.....	Gas lamp and fixtures.....	844	16 90
	F. L. Estep.....	24 hrs. work @ 10c.....	845	2 40
	The Zanesville Stone Co.....	1 bbl. washed clay.....	846	2 00

STATEMENT II—Continued.

Date.	To whom paid.	On account of	No.	Amount.
1896.				
Oct. 9	Blackwood, Green & Co.	1 Galv iron can.....	847	1 50
	Seward & Erdmann.....	6 frames for clay modeling.....	848	1 30
	Hirschberg, Hollander & Co.....	Cardboard relief models.....	849	1 20
	C. H. Woodruff.....	10 hrs. carp. wk. @ 27½c.....	850	2 78
	J. H. Randall.....	6 " " " @ 25c.....	851	1 50
	McAllister, Mohler & Co.	1 roll top desk.....	852	16 00
	W. G. Worcester.....	10 hours labor @ 12½c.....	853	1 25
	A. V. Bleininger.....	23½ " work @ 12½c.....	854	2 93
	Col. Rubber and Belting Co.....	Rubber belts, etc.....	855	1 83
	Tallmadge Hdw Co.....	Hardware.....	856	4 13
	Blackwood, Green & Co.	".....	857	7 09
	Edw. Orton, Jr.....	Paper.....	858	45
	Einer & Amend.....	Brakers, etc., Sept. 21, 1896.....	859	2 86
	J. H. Randall.....	26 hours carp. work @ 25c.....	860	6 50
	Col. Paint Mfg. Co.....	Knife, brush, etc.....	861	75
	L. E. Barringer.....	43 hours work @ 12½c.....	862	5 37
	K. B. Gerke.....	38½ " " ".....	863	4 75
	E. H. Barton.....	5 hours carp. work @ 25c.....	864	1 25
	Geo. Trowbridge.....	8 " " " ".....	865	2 00
	J. H. Randall.....	5 " " " ".....	866	1 25
	Murray City Coal Co.....	Coal.....	867	71 44
	E. A. Cole & Co.....	".....	868	27 97
	R. S. West.....	16 hours work @ 12½c.....	869	2 00
	D. Spencer.....	Est. No. 1 gallery library.....	870	1,800 00
	C. B. Guittard.....	18 hours work @ 12½c.....	871	2 25
	C. S. Hawley.....	68 " " ".....	872	8 50
	J. F. Jeffrey.....	56 " " ".....	873	7 00
	Albert Donham.....	38½ " " ".....	874	4 82
	J. W. Groves.....	60 " " ".....	875	7 50
	C. W. Damron.....	39 " " ".....	876	5 85
	F. J. Hale.....	38 " " ".....	877	4 75
	Eugene Marsh.....	11 days work @ \$1.50.....	878	16 50
	Dallas Jennings.....	12 " " ".....	879	18 00
	John Bonde.....	7½ " " ".....	880	11 63
	Nitschke Bros.....	Stationery.....	881	6 50
	Gowing & Co.....	1 Barnes Calorimeter.....	882	26 00
	Campbell Ptg. Press Mfg. Co.	2 Hawkins counters.....	883	10 00
	Gus C. Hennings.....	1 mirror apparatus.....	884	100 00
	Col. Supply Co.....	Fittings.....	885	48
	C. M. Giddings.....	Blue prints, etc.....	886	20 83
	Hine & Robertson Co.....	Instruments.....	887	67 25
	Col. Sewer Pipe Co.....	Pipes.....	888	12 05
	H. Braun Sons & Co.....	Instruments, etc.....	889	11 24
	W. A. Knight.....	Repairing microscopes.....	890	12 00
	B. D. Potts.....	Fittings.....	891	6 15
	Jas. Seaman.....	24 insect cases \$1.25 p'g same 5c.....	892	31 20
	A. H. Smythe.....	Pens, pencils, etc.....	893	7 29
	Entomolog. Society of Ont.....	3,000 pins, etc.....	894	3 15
	Geo. Trowbridge.....	4 hours carp. work @ 25c.....	895	1 00
	E. H. Barton.....	4 " " ".....	896	1 00
	Gloucester Net and Twine Co.....	Seines, etc.....	897	9 68
	Trunk and Bag Co.....	4 cases.....	898	15 00
	L. Veit & Co.....	Repairing instruments, etc.....	899	23 90
	H. Cole.....	" " " ".....	900	190 40

STATEMENT II—Continued.

Date.	To whom paid.	On account of.	No.	Amount.
1896				
Oct. 9	Nitschke Bros.....	1,000 note heads.....	901	\$2 50
	H. Braun Sons & Co....	Instruments, etc.....	902	34 21
	W. A. Manda.....	Flower seeds.....	903	2 85
	Geo. Trowbridge.....	7 hrs. carp. work, @ 25c.....	904	1 75
	Bausch & Lomb Opt. Co	Instruments.....	905	2 74
	T. H. Ashwell.....	Specimen holders.....	906	1 00
	John Hawkins.....	3½ days work, @ \$1.50.....	907	5 25
	J. A. Garretson.....	14 " " ".....	908	21 00
	Ed. Fiedler.....	9 " " ".....	909	13 50
	Wm. Reynolds.....	8 " " ".....	910	24 00
	H. C. Powers.....	10 " " ".....	911	15 00
	F. E. Fleischer.....	15½ " " ".....	912	23 25
	M. Peck.....	28 " " ".....	913	42 00
	S. C. Wilson.....	Team wk. 6½ d. @ \$3.00.....	914	19 50
	W. F. Lavery.....	9½ dys. work @ \$1.50.....	915	14 25
	Eugene Marsh.....	12½ " " ".....	916	18 75
	W. V. Minkler.....	16 " " ".....	917	24 00
	Ed. Chandler.....	11½ " " ".....	918	17 25
	Thos. Algeo.....	3 " " ".....	919	4 50
	C. H. Irwin.....	12½ " " ".....	920	18 75
	John Grove.....	1 " " ".....	921	1 50
	Walter Chantler.....	7 " " ".....	922	10 50
	L. Williams.....	13½ " " ".....	923	19 87
	Geo. Trowbridge.....	18 hrs. carp. wk. @ 25c.....	924	4 50
	E. H. Barton.....	12 " " ".....	925	3 00
	C. W. Woodruff.....	32 " " @ 27½c.....	926	9 00
	J. H. Randall.....	31 " " 25c.....	927	7 75
	West'ouse El't. Mfg. Co	Electrical machinery.....	928	6,465 00
	The Direct Separator Co	Separator.....	929	35 00
	The New Col. Bridge Co	Beams.....	930	29 97
	Kelton & Converse.....	Lumber.....	931	13 39
	Niles Tool Wks. Co.....	Traveling crane, etc.....	932	1,035 00
	Tallmadge Hdw. Co.....	Bolts, etc.....	933	1 38
	D'Este & Seeley Co.....	Traps, valves, etc.....	934	229 00
	Stitt, Price & Co.....	Cement.....	935	8 70
	Cent. O. Paper Co.....	12 rolls, 2 ply roofing.....	936	10 80
	F. M. Fornof.....	3 piers in power house, etc.....	937	642 25
	Paul Steam System Co..	Valves.....	938	8 75
	M. P. Street.....	Setting boilers, etc.....	939	405 10
	Fish Stone Co.....	Stone.....	940	45 50
	Jeffrey Mfg. Co.....	Est. No. 3 conveyors.....	941	301 50
	F. M. Fornof.....	Est. No. 4 b'ler & power house	942	1,723 98
	Col. Supply Co.....	Pipe and fittings est. No. 2.....	943	578 48
	Cap. City Mch. Co.....	Valves, etc.....	944	316 95
	Engelke & Bigelow.....	Fr't and cartage.....	945	355 10
	S. T. Knight.....	Final estimate tunnel.....	946	155 00
	Cass Harkins.....	Pipe and fittings.....	947	46 50
	Tallmadge Hdw. Co.....	Wrench.....	948	1 75
	A. M. Byers & Co.....	W. I. pipe.....	949	265 00
	L. Williams.....	10 dys. wk. @ \$1.50.....	950	15 00
	Walter Chantler.....	7 dys., 9 hrs. wk.....	951	11 85
	John Hawkins.....	6 dys., wk. @ \$1.50.....	952	9 00
	Ed. Morris.....	16 " " ".....	953	24 00
	W. F. Lavery.....	4½ " " ".....	954	6 75
	Jas. Farmer.....	7½ " " ".....	955	11 25
	H. C. Powers.....	5½ " " ".....	956	8 25
	Chapman Valve Mfg. Co..	Valves.....	957	103 52

STATEMENT II—Continued.

Date.	To whom paid.	On account of.	No.	Amount.
1896.				
Oct. 9	Spencer Sigler	5½ days work @ \$1.50	958	\$8 25
	Babcock & Wilcox Co.	Steam boiler, etc	959	2,735 50
	G. B. Schutte Sons Co.	Iron supplies	960	47 69
	Tallmadge Hdw. Co.	Hardware	961	7 75
	H. Judd	33 hours work @ 25c	962	8 25
	E. F. Smith	20 hours work @ 15c	963	3 00
	C. A. Wright	73¾ hours work @ 15c	964	11 05
	A. L. Williston	53½ hrs. wk. by C. A. Wright ..	965	8 00
	H. Connor	3½ days work @ \$1.50	966	5 25
	M. A. Seed Dry Plate Co.	Dry plates	967	7 87
	C. O. Paper Co.	Paper	968	5 80
	J. H. Randall	8 hours work @ 25c	969	2 00
	Geo. Trowbridge	18 hours work @ 25c	970	4 50
	C. H. Woodruff	13 hours carp. work @ 27½c ...	971	3 61
	E. H. Barton	15 hours carp. work @ 25c	972	3 75
	J. H. Randall	22 hours carp. work @ 25c	973	5 50
	J. E. Strickler & Son.	Gas fittings	974	67 60
	C. H. Woodruff	Balance due carp. work	975	74 45
	J. H. Randall	20 hours carp. work @ 25c	976	4 00
	Geo. Trowbridge	16 hours carp. work @ 25c	977	5 00
	Nitschke Bros.	Books and stationery	978	2 04
	E. E. Sommermeier	40 hours work @ 15c	979	6 00
	H. Seraphim	Binding	980	123 45
	Geo. Trowbridge	8 hours work @ 25c	981	2 00
	C. H. Woodruff	12 hours carp. work @ 27½c ...	982	3 33
	Blackwood, Green & Co.	Oils, etc.	983	18 71
	Kimball & Mathews	2 boxes plates	984	1 35
	W. A. Harrison & Co.	Instruments	985	5 70
	Prof. R. Heber & Sons.	1 box limes	986	1 25
	A. W. Livingstons' Sons	Seeds	987	5 19
	F. B. Mitchell	9 days work @ \$3.	988	27 00
	F. S. Johnston	113 hours work @ 12½c	989	14 12
	Col. Const Co.	Est. No. 1, armory & gym	990	135 00
	A. F. Wilcox	Est. No. 3, Bot. Building	991	353 70
15	J. C. Dougan	Fees refunded, law school	992	15 00
16	E. S. Gyger	Fees refunded	993	10 00
	H. B. Hosmer	"	994	10 00
24	J. T. Martin	Freight paid on stores shipped per bbl.	995	3 00
26	W. C. McCracken	Salary for October 1896	996	100 00
	D. M. Massie	Expenses att'g Sesqui. Cent. of Princeton as delegate	997	87 00
27	Jas. H. Canfield	Salary for October, 1896	998	500 00
	T. F. Hunt	"	999	250 00
	Edw. Orton	"	1000	225 00
	W. H. Scott	"	1001	225 00
	S. C. Derby	"	1002	225 00
	W. R. Lazenby	"	1003	225 00
	J. R. Smith	"	1004	225 00
	H. A. Weber	"	1005	225 00
	B. F. Thomas	"	1006	225 00
	G. W. Knight	"	1007	225 00
	R. D. Bohannon	"	1008	225 00
	D. S. Kellicott	"	1009	225 00
	C. N. Brown	"	1010	225 00
	E. A. Eggers	"	1011	225 00
	A. M. Bleile	"	1012	225 00

STATEMENT II—Continued.

Date.	To whom paid.	On account of.	No.	Amount.
1896.				
Oct. 31	W. A. Kellerman.....	Salary for October, 1896.....	1013	\$ 225 00
	B. L. Bowen.....	" " " " " "	1014	225 00
	A. C. Barrows.....	" " " " " "	1015	225 00
	J. V. Denney.....	" " " " " "	1016	225 00
	W. F. Hunter.....	1-10 Salary Oct. inst., 1896.....	1017	225 00
	J. P. Gordy.....	" " " " " "	1018	225 00
	W. T. Magruder.....	" " " " " "	1019	225 00
	A. L. Williston.....	" " " " " "	1020	220 00
31	N. W. Lord.....	Salary October inst. 1896.....	1021	200 00
	G. B. Kauffman.....	" " " " " "	1022	200 00
	J. N. Bradford.....	" " " " " "	1023	180 00
	F. A. Ray.....	" " " " " "	1024	180 00
	Wm. McPherson.....	" " " " " "	1025	180 00
	Edw. Orton, Jr.....	" " " " " "	1026	180 00
	G. W. McCoard.....	" " " " " "	1027	160 00
	H. C. Lord.....	" " " " " "	1028	150 00
	F. C. Caldwell.....	" " " " " "	1029	140 00
	E. A. Hitchcock.....	" " " " " "	1030	140 00
	W. D. Gibbs.....	" " " " " "	1031	140 00
	S. A. Norton.....	" " " " " "	1032	120 00
	D. S. White.....	" " " " " "	1033	120 00
	R. I. Fulton.....	" " " " " "	1034	120 00
	F. E. French.....	" " " " " "	1035	100 00
	F. C. Clark.....	" " " " " "	1036	100 00
	C. E. Sherman.....	" " " " " "	1037	100 00
	Olive B. Jones.....	" " " " " "	1038	100 00
	J. E. Boyd.....	" " " " " "	1039	100 00
	C. W. Weick.....	" " " " " "	1040	90 00
	W. A. Knight.....	" " " " " "	1041	90 00
	J. S. Hine.....	" " " " " "	1042	85 00
	C. B. Morrey.....	" " " " " "	1043	85 00
	C. W. Foulk.....	" " " " " "	1044	80 00
	J. A. Bowknocker.....	" " " " " "	1045	80 00
	B. A. Eisenlohr.....	" " " " " "	1046	80 00
	H. V. Ames.....	" " " " " "	1047	80 00
	C. C. Sleffel.....	" " " " " "	1048	80 00
	C. L. Arnold.....	" " " " " "	1049	80 00
	K. D. Swartzel.....	" " " " " "	1050	80 00
	C. A. Dye.....	" " " " " "	1051	80 00
	C. A. Bruce.....	" " " " " "	1052	75 00
	W. L. Graves.....	" " " " " "	1053	75 00
	C. W. Burkett.....	" " " " " "	1054	70 00
	A. W. Hodgman.....	" " " " " "	1055	70 00
	W. F. Lavery.....	" " " " " "	1056	70 00
	A. E. Vinson.....	" " " " " "	1057	60 00
	T. K. Lewis.....	" " " " " "	1058	60 00
	F. Haas.....	" " " " " "	1059	60 00

STATEMENT II—Continued.

Date.	To whom paid.	On account of.	No.	Amount.
1896.				
Oct. 31	E. E. Harrold	Salary for October, 1896.....	1060	\$60 00
	F. L. Landacre.....	" "	1061	60 00
	W. K. Moorehead.....	" "	1062	50 00
	C. B. Hine.....	" "	1063	45 00
	Harriet Townshend.....	" "	1064	50 00
	F. E. Kester.....	" "	1065	50 00
	W. L. Evans.....	" "	1066	40 00
	J. T. Martin.....	" "	1067	40 00
	R. M. Hughes.....	" "	1068	35 00
	E. F. Coddington.....	" "	1069	30 00
	H. M. Biebel.....	" "	1070	30 00
	J. R. Spurrier.....	" "	1071	30 00
	Maud Jeffrey.....	" "	1072	30 00
Nov. 25	J. V. Denney.....	Salary for Nov., inst., 1896.....	1073	225 00
	E. A. Eggers.....	" "	1074	225 00
Oct. 31	A. C. Harvey.....	" Oct., inst., 1896.....	1075	25 00
	W. R. Beattie.....	" October, 1896.....	1076	50 00
	Alexis Cope.....	" "	1077	187 50
30	J. T. Mack.....	Exp. atty. meetings, Bond and Building Company.....	1078	20 75
31	G. R. Rose.....	Salary for October, 1896.....	1079	65 00
	Chas. Low.....	" "	1080	54 17
31	Jean Blackford.....	" "	1081	50 00
	Edith Cockins.....	" "	1082	50 00
	Wm. Whitestone.....	" "	1083	45 00
	Wm. Standley.....	" "	1084	45 00
	Thos. Boude.....	" "	1085	45 00
	Benj. LeBay.....	" "	1086	45 00
	Jas. Kelly.....	" "	1087	41 67
	F. B. Brewer.....	" "	1088	40 00
	John Conrad.....	" "	1089	40 00
	John E. Adams.....	" "	1090	40 00
	Wash Townsend.....	" "	1091	30 00
	Edw. Stalter.....	" "	1092	20 00
	Horace Judd.....	" "	1093	20 00
1897.				
Jan. 30	P. Cattingham.....	24 nights @ \$1.50 as watchman, January, 1897.....	1094	36 00
1896.				
Oct. 31	J. B. Parker.....	Salary for October, 1896.....	1095	13 50
	Robt. Fischer.....	" "	1096	10 00
	Edw. T. Watson.....	To salary September and October, inst., 1896.....	1097	20 00
30	A. F. Wilcox.....	Final estimate on improve- ment bot. building.....	1098	244 35
31	D. F. Pugh.....	Twenty-six lectures law school @ 4.....	1099	104 00
	H. McF. Ball.....	Salary October, 1896.....	1100	50 00
	F. W. Prentiss.....	" "	1101	33 33
Nov. 4	Mary H. Cope.....	Clerical asst., October, 1896, 27 days @ \$1.50.....	1102	40 50
	T. J. Godfrey.....	Expenses attending meeting of executive com., entire work	1103	9 65
5	Nichol & Carr.,	Estimate No. 3, enlargement of chapel.....	1104	8,963 10
	The New Col. Bridge Co	Beams for the supporting of wall.....	1105	3 91
	Westinghouse E. M. Co.	3 Number 25 World's Fair Convertees	1106	105 00

STATEMENT II—Continued.

Date.	To whom paid.	On account of.	No.	Amount.
1896.				
Nov. 5	Kauffman Lattimer Co..	Mercury flasks.....	1107	\$16 75
	Alva McFarland ..	4 hours carp. work @ 25c	1108	1 00
	W. A. Manda.....	Dictionary of gardening and mixed flower seeds ..	1109	19 15
	W. R. Beattie.....	Expenditures in securing cactus.....	1110	1 50
	Alum Creek Ice Co	Ice from April 22d to June 1, 1896.....	1111	1 80
	C. H. Stoelting Mfg. Co.	1 construction furnace, 1 brim. burner.....	1112	37 18
	Col. Supply Co	Pipe and fittings.....	1113	107 32
	Cap. City Mch. Works ..	Bolts, valves, castings, etc.....	1114	148 84
	Babcock & Wilcox Co....	1 stoker, erecting same, and resetting boiler.....	1115	1,226 00
	D'Este & Seeley Co.....	2 Bald. steam traps	1116	56 00
	S. T. Knight	Est. No. 1 tunnel, Hayes Hall to arm. and gym	1117	1,680 00
	M. P. Street	4 bbls. sand, mason work, ½ sack mortar	1118	81 92
	M. P. Street	For setting boilers, etc	1119	437 48
	W. J. Johnson Co	Adv. in "The Elect. World" ..	1120	1 50
	Bissell-Dodge-Erner Co	20 brass binding posts.....	1121	1 67
	Cherrington P. & E. Co..	2 stamps, ink pad and dater...	1122	2 10
	Kelton & Converse	Lumber	1123	1 92
	C. H. Woodruff	21 hours carp. work @ 27 7-9c	1124	5 83
	E. H. Barton	13 " " 25c	1125	3 25
	Alva McFarland	3 " " 25c	1126	75
	J. H. Randall	4 " " 25c	1127	1 00
	E. S. Aldrich	3½ hours work @ 12½c.....	1128	43
	Alva Welch	10 hours carp. work @ 25c ..	1129	2 50
	H. S. Riddle.....	18 hours Lab. work @ 12½c...	1130	2 25
	Kelton & Converse	Lumber	1131	2 01
	E. H. Barton	5 hours carp. work @ 25c	1132	1 25
	W. A. Kellerman	Lab. supplies	1133	33 44
	A. H. Smythe.....	1 box crayon and 1 doz. sheets gum paper.....	1134	1 25
	McClelland & Co	Stationery, etc.....	1135	3 85
	Bausch & Lomb.Opt. Co	Optical instruments, etc.....	1136	87 26
	J. H. Randall	9 hours carp. work @ 25c	1137	2 25
	C. H. Woodruff	4½ " " 27 7-9c.....	1138	1 25
	Geo. Trowbridge	11 " " 25c	1139	2 75
	Kelton & Converse	Lumber	1140	3 21
	Col. Construction Co ..	Est. No. 1 Biological Bldg.....	1141	279 00
	"	Est. No. 2 Gymnasium	1142	585 00
	Tallmadge Hdw. Co.....	Hardware	1143	3 55
	Richard Reynolds	5 hours carp. work @ 25c	1144	1 25
	E. H. Barton	6½ " " 25c	1145	1 62
	E. O. Randall.....	23 lectures law school @ \$4....	1146	92 00
	C. H. Woodruff	11 hours carp. work @ 27 7-9c	1147	3 06
	J. H. Randall	76 " " 25c	1148	19 00
	Tallmadge Hdw. Co	Hardware	1149	65
	Kelton & Converse	Lumber	1150	3 90
	Andrew Earl	1 door	1151	1 25
	The Cassell Pub. Co.....	Books.....	1152	2 88
	Giun & Co	"	1153	1 87
	Allen Metters.....	30 hours @ 12c	1154	3 75

STATEMENT II—Continued.

Date.	To whom paid.	On account of	No.	Amount.
1896.				
Nov. 5	C. O. Guittard	38 hours work @ 12½c	1155	\$4 75
	J. F. Jeffrev	68 " "	1156	8 50
	C. L. Herbert	74 " "	1157	9 25
	E. B. Kinhead	18 lectures law school, \$4	1158	72 00
	Gertrude Kellicott	28 hours work @ 15c	1159	4 20
	Col. Cabinet Co.	1 circular railing case	1160	250 00
	Col. Cabinet Co	1 relic case and 7 frames	1161	105 00
	W. K. Moorehead	Apparatus Archaeology	1162	37 30
	C. W. Harper	Eng. 12 cuts for O. S. U. Rep.	1163	25 00
	Kelton & Converse	Lumber	1164	25 59
	Tallmadge Hdw. Co.	½ dozen clamps	1165	1 75
	C. E. Nicholas	4 cells Misco battery @ 50c	1166	2 00
	Geo. Trowbridge	12 hours carp. work @ 25c	1167	3 00
	C. H. Woodruff	4 " " 27½c	1168	1 11
	Alva McFarland	18 " " 25c	1169	4 50
	Standard Oil Co	Oil and gasoline	1170	12 11
	Tallmadge Hdw. Co.	Glue	1171	35
	Hann & Adair	Ledger paper	1172	2 50
	Col. Rubber & Belt'g Co.	Rubber belt and air cock	1173	59
	P. Hayden Sad. Hdw. Co.	Bolts, etc	1174	2 20
	Alva McFarland	8 hrs. carp. work @ 25c	1175	2 00
	Einmer & Amend	Chemical apparatus	1176	70 75
	Col. Supply Co	Pipe and fittings	1177	10 30
	The G. P. Schute Sons Co	Steel bars, iron supplies, etc ..	1178	15 20
	Nitschke Bros	Letter heads, envelopes, etc ..	1179	5 25
	A. W. Kilbourne	1 iron kettle	1180	2 00
	Cap. City Machine Wks.	Shaft and cutting	1181	1 88
	Orr, Brown & Price	100 roll sulphur	1182	2 50
	McClelland & Co	6 box files, etc	1183	3 20
	Case Mfg. Co	Pulleys, etc	1184	5 00
	Kelton & Converse	Lumber	1185	82 66
	The Griswold Suhl Co	Iron bars, etc	1186	18 58
	Gilfillan Scale & Hdw. Co ..	Spring balances, etc	1187	3 00
	Stitt, Price & Co	Cement, sand, etc	1188	43 25
	The Fish Press B'k Co ..	3,000 pavers @ \$7	1189	21 00
	E. H. Barton	12 hrs. carp. wrk. @ 25c	1190	3 00
	C. H. Woodruff	9½ hrs. carp. @ 27½c. balance on contract	1191	195 72
	W. Erdmann	54½ hrs. work @ 15c	1192	8 17
	R. M. Seward	67½ " "	1193	10 12
	E. F. Smith	81 " "	1194	12 15
	C. A. Wright	243½ " "	1195	36 50
	W. G. Drummond	51 " 25c	1196	12 75
	F. Fout	24 " "	1197	6 00
	A. L. Williston	Cash paid for 15½ hrs. mason work @ 45c	1198	6 95
	A. N. Cope	37 hours work at 15c	1199	5 55
	Wards Nat. Science Est.	Crystal models	1200	12 00
	Edw. Orton	Museum collections	1201	17 75
	H. E. Brown & Sons	Machine work, etc	1202	2 65
	Armour Fert. Wks.	Laboratory supplies	1203	2 25
	Hann & Adair	Score cards, etc	1204	8 25
	Benj. Rushmer	Horse shoeing	1205	26 90
	Creamery Pkg. Co	Brushes, tubes, etc	1206	2 64
	Tallmadge Hdw. Co	Hardware	1207	18 30
	Geo. Trowbridge	12 hrs. carp. work at 25c	1208	3 00
	E. H. Barton	7 " "	1209	1 75

STATEMENT II—Continued.

Date.	To whom paid.	On account of.	No.	Amount.
1896.				
Nov. 5	Library Bureau.....	Table and chairs.....	1210	\$253 00
	J. H. Randall.....	40 hrs. carp. work at 25c.....	1211	10 00
	Col. Supply Co.....	Pipes and fittings.....	1212	31 29
	Talimadge Hardw'r Co.....	2 mallets.....	1213	1 00
	Nichol & Carr.....	5 testing platforms.....	1214	11 25
	Cap. City Mch Works...	Pipe, etc.....	1215	4 55
	Taylor, Beall & Co.....	Stone.....	1216	31 63
	Cap. City Mch. Works...	Tubing.....	1217	5 84
	M. Reynolds.....	Serv. as steam fitter 10 days at \$3.....	1218	30 00
	Ed Fiedler.....	10 days work at \$1.50.....	1219	15 00
	Marion Peck.....	Services on tunnel to Towns hall 10 days at \$1.50.....	1220	15 00
	Walter Chantler.....	3 days, 8 hrs. work at \$1.50 Towns hall.....	1221	5 70
	L. Williams.....	3 days, 8 hrs. work at \$1.50, Towns hall.....	1222	5 70
	O. T. Corson.....	1 page adv. August, September, October.....	1223	22 50
	Die Deutsche Pub. Co..	Advertising.....	1224	9 00
	O. S. Journal Co.....	".....	1225	9 60
	The Westbote Co.....	".....	1226	3 30
	Nitschke Bros.....	1 roster, 250 pages.....	1227	3 00
	Champlin Ptg. Co.....	Ptg. reports and folders.....	1228	11 15
	Agr. Student Pub. Co...	Advertising.....	1229	60 00
	D. V. Burkett.....	Students hand book and directory.....	1230	10 00
	Alva McFarland.....	63½ hrs carp. work at 25c.....	1231	15 87
	E. H. Barton.....	67 ".....	1232	16 75
	Geo. Trowbridge.....	106 ".....	1233	26 50
	Richard Reynolds.....	34 ".....	1234	8 50
	Alva Welch.....	39 ".....	1235	9 75
	C. A. Oare.....	Repairing, brickw'k & materi'l.....	1236	19 00
	Neski & Huffman.....	Plumbing, etc.....	1237	152 95
	Blackwood, Green & Co	Repairing roof & conductors..	1238	15 90
	Kelton & Converse.....	Lumber.....	1239	44 30
	Andrew Earl.....	".....	1240	6 93
	U. D. & J. H. Beard Co..	Painting.....	1241	179 20
	Vogelgesang Furn. Co..	Repairing and new furnace....	1242	258 00
	C. H. Woodruff.....	146½ hrs. carp. work at 27½c.....	1243	40 69
6	Fairbank, Morse & Co..	Platform scales.....	1244	186 00
	Blackwood, Green & Co	2 pounds copper, labor 2 hrs..	1245	1 20
	Tallmadge Hdw. Co.....	Hardware.....	1246	5 50
	Kelton & Converse.....	Lumber.....	1247	25 67
	The New Col. Bridge Co	Platform and railing.....	1248	65 00
	B. D. Potts.....	Pipe and fittings.....	1249	13 84
	A. A. Griffing Iron Co.	1 Bundy return trap.....	1250	75 00
	Col. Supply Co.....	Pipe and fittings.....	1251	65 36
	Geo. Trowbridge.....	17½ hrs. carp. work at 25c.....	1252	4 37
	E. H. Barton.....	9 ".....	1253	2 25
	C. H. Woodruff.....	14 " 27½c.....	1254	3 88
	J. H. Randall.....	13½ " 25c.....	1255	3 37
	Jos. Garrettson.....	27 days work at \$1.50.....	1256	40 50
	Henry Powers.....	28 days, 8 hrs. work at \$1 50..	1257	43 20
	L. Williams.....	16 days work at \$1.50.....	1258	24 00
	W. Chantler.....	17 ".....	1259	25 50
	Ed. Morris.....	20 ".....	1260	30 00

STATEMENT II—Continued.

Date.	To whom paid.	On account of.	No.	Amount.
1896.				
Nov. 6	Marion Peck	21 days work @ \$1.50.....	1261	\$31 50
	Ed. Fiedler.....	12 " "	1262	18 00
	Wm. Reynolds	11 " @ \$3.00	1263	33 00
	Alva McFarland	11½ hours carp. work @ 25c ..	1264	2 88
	Smith & Conklin.....	1 window shade	1265	2 00
	Nitschke Bros.....	Stationery	1266	9 45
	Cherington P. & E. Co..	Engr. autograph and stamp...	1267	2 00
	W. N. Wight	14 yds. blackboard @ 22½c ..	1268	3 15
	Col. Supply Co	Fittings.....	1269	1 35
	H. Braun Sons & Co.....	Oils, etc.....	1270	7 80
	Tallmadge Hdw. Co	Hardware	1271	2 70
	O. S. Lear.....	Repairs on typewriter.....	1272	1 00
	Tracy Wells Co.....	Erasers	1273	6 00
	Cent. O. P. Co	Ruled book.....	1274	9 50
	McAllister, Mohler & Co	3 desks.....	1275	42 00
	The Ruggles-Gale Co ..	1 dozen file boxes	1276	5 00
	Webb Stat'y & Ptg. Co..	1 record.....	1277	9 00
	W. U. Telegraph Co.....	Messages.....	1278	6 87
	C. H. Irvin	64 hours work @ 15c.....	1279	9 60
	C. C. Barnett	Typewriting Faculty minutes	1280	6 00
	R. J. Seymour	Work as guide Oct. 5-30, 95 hrs	1281	11 87
	Alexis Cope	Cash advanced for ex. ch'ges ..	1282	25 00
	Jas. Stainbrook.....	31 days work @ \$1.50	1283	46 50
	R. S. West.....	16 hours work @ 12½c	1284	2 00
	C. K. McClelland	102 " "	1285	12 75
	Am. Dist. Tel. Co.....	Rent 7 fire-alarm boxes 1 yr...	1286	28 00
	Wilbur Conley.....	26 hours guide work.....	1287	3 25
	S. T. Knight	Building sewer Hayes Hall to		
		Armory	1288	135 00
	C. Jensen.....	3 bbls. @ 50c and cartage 50c..	1289	2 00
	Kilbourne-Jones Co ..	5 gals. asphaltum, etc.....	1290	3 75
	Cap. City Mach. Wks ..	Bolts, castings, etc.....	1291	4 23
	Fairbanks, Morse & Co.	1 scale	1292	29 60
	Crosby St'm G. & V. Co	Machinery	1293	157 50
	Brown & Sharpe Mfg. Co	"	1294	13 00
	McAllister, Mohler & Co	Furniture, 1 desk, 1 chair, etc	1295	36 00
	A. H. Smythe	1 carpenters experimental eng	1296	4 50
	Jos. Masey	Whitewashing	1297	8 00
	Wm. Watson	Brick, sand, cement, etc.....	1298	20 03
	Tallmadge Hdw. Co.....	Hardware	1299	7 40
	Gilfillan Scale & Hdw. Co	Balances, etc	1300	3 42
	McCallip F. & W. Wks..	Screen, etc	1301	5 00
	W. T. Magruder.....	Amt. paid E. Marsh for labor..	1302	22 50
	Alva McFarland	9 hours carp. work @ 25c	1303	2 25
	E. H. Barton	9½ " "	1304	2 37
	Bernard Galdarn.....	21 days @ 40c	1305	8 40
	C. W. Damron	8½ hours work @ 15c.....	1306	1 28
	W. T. Collins.....	½ month at \$30, from Oct. 19 ..	1307	15 00
	A. Donham	8½ hours work @ 12½c.....	1308	1 07
	E. E. Sommermeier	15 " "	1309	1 88
	F. J. Hale	18½ " "	1310	2 32
	C. M. Ruhlen.....	18½ " "	1311	2 32
	C. E. Stone.....	7 " "	1312	88
	C. Riddle.....	10 " "	1313	1 25
	W. J. Minkler.....	20 " "	1314	2 50
	Dallas Jennings.....	8 days work @ \$1.50	1315	12 00
	Schaffer & Budenberg...	Platinum wire, gauges, etc.....	1316	72 20

STATEMENT II—Continued.

Date.	To whom paid.	On account of.	No.	Amount.
1896.				
Nov.	E. A. Kinsey	Files, wrenches, etc.....	1317	\$10 45
	Col. Supply Co.....	Pipe and fittings.....	1318	114 94
	Simmons Hdw. Co.....	Hardware	1319	21 68
	C. G. Newton.....	Spec. miner's survey tape and brass reel	1320	17 00
	F. S. Johnston.....	105 hrs wk. @ 12½ cents.....	1321	13 12
	A. S. Humphrey.....	Picture frames.....	1322	12 90
	Spahr & Glenn.....	1000 daily labor reports.....	1323	2 75
	Rochester Optical Co....	Photo apparatus.....	1324	52 32
	Green, Joyce & Co.....	Towels	1325	24 15
	Andrew Kerins.....	1 copper oven	1326	8 50
	Kimball & Mathews	Photo. supplies.....	1327	4 63
	N. P. Oglesby.....	47 hrs. work @ 15 cents.....	1328	7 05
	J. Carbutt	Dry plates.....	1329	41 70
	W. B. Calkins.....	103 hours work @ 15 cents.....	1330	15 45
	The Tracy-Wells Co.....	1 case matches, gum labels....	1331	4 70
	Col. Mdse. Co.....	1 ledger.....	1332	1 20
	Nitschke Bros.....	500 special envelopes	1333	1 50
	C. H. Stoelting Mfg. Co.	100 bisque plates	1334	9 00
	The Lawrence Press Co.	3,500 out put cards, 7 kinds....	1335	14 00
	Hann & Adair.....	Books, catalogues, etc.....	1336	58 50
	Tallmadge Hdw. Co.....	Hardware	1337	1 25
	Eimer & Amend	Chemicals.....	1338	33
	Baker & Co	Platinum pans, etc., repairing crucibles	1339	231 55
	H. Cole.....	2 rolls blue print paper, etc....	1340	4 40
	Kauffman, Lattimer Co.	Chemicals, etc.....	1341	700 69
	Merck & Co.....	Chemicals.....	1342	89 28
	Mallinckrodt Ch. Wks....	"	1343	102 88
	Col. Macadam Co.....	Crushed stone.....	1344	258 25
	H. F. Scott.....	9 hours work @ 12½ cents	1345	1 13
	H. H. Harry.....	43 " "	1346	5 37
	J. A. Thompson.....	60½ " "	1347	7 53
	C. J. Goodman.....	25½ " "	1348	3 18
	H. C. Hulburt	35 " "	1349	4 37
	A. G. McCall.....	97 " "	1350	12 12
	S. C. Durbin.....	10 " "	1351	1 25
	E. D. Harshbarger	10 " "	1352	1 25
	W. Galehouse	25 " "	1353	3 12
	J. W. Ditto	38½ " "	1354	4 81
	C. E. Lee.....	15 " "	1355	1 87
	C. W. Morrow	206½ " "	1356	25 84
	H. Dyar.....	35 " "	1357	4 37
	A. V. Niçy	55 " "	1358	6 87
	F. S. Aten.....	20½ " "	1359	2 56
	D. Duncan	39½ " "	1360	4 97
	W. A. Price.....	164 " "	1361	20 50
	H. Chantler	235 " "	1362	29 37
	F. W. Shaeffer.....	71½ " "	1363	8 97
10	A. B. Detchon	35½ " "	1364	4 43
6	H. F. Morgan.....	97½ " "	1365	12 18
	A. J. Chantler.....	234 " "	1366	29 25
	H. Goddard.....	53 " "	1367	6 62
	J. E. Alpeter.....	75 " "	1368	9 37
	Karl Starbuck.....	20 " "	1369	2 50
	E. M. Sharp	94½ " "	1370	11 81
	L. R. Stimmel	11½ " "	1371	1 47

STATEMENT II—Continued.

Date.	To whom paid.	On account of	No.	Amount.
1896.				
Nov. 6	V. H. Davis.....	10 hours' work @ 12½ cts.....	1372	1 25
	J. S. Brown.....	75 " " " ".....	1373	9 37
	H. H. Loomis.....	65 " " " ".....	1374	8 12
	J. S. Parsons.....	84 " " " ".....	1375	10 50
	J. C. Perry.....	57 " " " ".....	1376	7 12
	P. C. Bryant.....	10 " " " ".....	1377	1 25
	W. Conley.....	38 " " " ".....	1378	4 75
	F. J. Tyler.....	69½ " " " ".....	1379	8 65
	Wm. Sparhawk.....	42½ " " " ".....	1380	5 31
	C. M. Whipple.....	70½ " " " ".....	1381	8 81
	C. W. Waid.....	35 " " 15 cts.....	1382	5 25
	A. W. Livingston's Sons	Seeds.....	1383	1 49
	Engelke & Bigelow.....	Freight and cartage.....	1384	201 53
	Hann & Adair.....	Letter heads, etc.....	1385	3 15
	Kelton & Converse.....	Lumber.....	1386	7 97
	The Mich. Pipe Co.....	Pipe.....	1387	19 50
	Col. Edison Elec. Light			
	Co.....	3 lbs. solder, etc.....	1388	1 14
	S. A. Vance.....	Gasoline.....	1389	1 20
	Col. Supply Co.....	Pipe and fittings.....	1390	1 34
	Tallmadge Hdw. Co.....	Hardware.....	1391	1 35
	The H. Mithoff Co.....	Globes, screens, etc.....	1392	1 75
	Westinghouse Elec. &			
	Mfg. Co.....	World's Fr. m'tor, c'nv'trs, etc.	1393	302 00
	Bi-sell, Dodge & Einer			
	Co.....	Electric supplies.....	1394	77 03
	Richard Reynolds.....	10 hrs. carpenter work @ 25c.	1395	2 50
	A. E. Loeb.....	276 hrs. @ 12½c and 15c.....	1396	39 73
	H. M. Biebel.....	15 hrs. work @ 15c.....	1397	2 25
	O. A. Davis.....	55½ " " " ".....	1398	8 36
	C. R. Hebble.....	137 hrs. @ 15c. 139½ hrs. @ 12½c	1399	36 51
	W. E. Chappell.....	47 " @ 10c., car fare 10c....	1400	4 80
	E. S. Aldrich.....	33 " work @ 12½c.....	1401	4 12
	F. L. Estep.....	42 " " " ".....	1402	5 25
	Henry Seraphim.....	Binding.....	1403	71 50
	G. E. Stechert.....	Books.....	1404	158 66
	Taylor Austin Co.....	".....	1405	53 75
	So. Side Transfer Co....	Hauling.....	1406	1 00
	W. J. Campbell.....	Books.....	1407	25 00
	D. Appleton & Co.....	Annual Cyclopedias.....	1408	36 00
	E. W. Woodruff.....	File holder.....	1409	1 00
	Tallmadge Hdw. Co.....	Hardware.....	1410	8 20
	Andrew Earl.....	Lumber.....	1411	7 48
	Geo. Trowbridge.....	24½ hrs. carpenter work @ 25c.	1412	6 12
	Edw. Orton.....	Books.....	1413	4 00
	Alva McFarland.....	5 hrs. carpenter work @ 25c....	1414	1 25
	E. H. Barton.....	18½ hrs. work @ 25c.....	1415	4 62
	C. H. Woodruff.....	18 hrs. carpenter work @ 25½c.	1416	5 00
	J. H. Randall.....	7 " " " " @ 25c....	1417	1 75
	Col. Wire & Iron Wks....	Extras on balcony railing.....	1418	25 00
	Neski & Hoffman.....	Pipe, etc.....	1419	7 97
	Stitt Price & Co.....	Sand.....	1420	3 00
	S. T. Knight.....	Est. No. 2 sewer.....	1421	299 25
	E. J. McNamara.....	Hose, cocks, etc.....	1422	4 80
	J. M. & W. Westwater...	Conduits, etc.....	1423	4 40
	Columbus Sew'r Pipe Co	Pipe.....	1424	3 40

STATEMENT II—Continued.

Date.	To whom paid.	On account of.	No.	Amount.
1896.				
Nov. 6	Tallmadge Hdw. Co.....	Hardware	1425	\$1 72
	Col. Paint Mfg. Co.....	1 brush, etc.....	1426	1 20
25	F. M. Senter, P. M.....	500 2c. postage stamps.....	1427	10 00
6	Fish Stone Co.....	Freestone caping Hayes Hall..	1428	4 55
6	Tallmadge Hdw. Co	Hardware	1429	32 27
	Kelton & Converse	Lumber	1430	2 19
	Andrew Earl	"	1431	5 83
	Col. Supply Co	Pipe and fittings.....	1432	55 99
	B. D. Potts.....	"	1433	20 16
	Col. Brass Co	Repairing, etc..	1434	2 45
	Blackwood, Green & Co.	Pipes, conductors, etc.....	1435	24 98
	E. H. Barton.....	36 hours carp. work @ 25c	1436	9 00
	C. H. Woodruff.....	7½ " 27½c.....	1437	2 08
	J. H. Randall	68 " 25c.....	1438	17 00
	Alva McFarland	13 " 25c.....	1439	3 25
	Ed. Morris	9 days, 4 hours work @ \$1.50..	1440	14 10
7	Col. Water Works	Water rents and charges	1441	185 98
7	G. W. Knight.....	13 law lectures.....	1442	52 00
7	F. M. Senter.....	1,000 2c. stamped envelopes ...	1443	22 16
	A. L. Buckman.....	Serv. as jan. elect. lab. Oct. '96	1444	20 00
	J. W. T. Duvel.....	Sal. ass't in botany, Oct. 1 to 10	1445	8 33
	W. F. Julien.....	" Oct. 11 to 31	1446	16 67
17	F. W. Prentiss, Treas...	Foreign bill, order Christ. Kob & Co.....	1447	988 30
	F. W. Prentiss, Treas...	For. bill, order Gustave Fock..	1448	61 42
	F. W. Prentiss, Treas...	Foreign bill, order Otto Har- vassowitz.....	1449	60 34
18	The Col. Const. Co.....	Est. No. 1, Townshend Hall...	1450	3,457 05
	T. J. Godfrey	Expenses att'g com. meeting..	1451	7 30
19	W. H. Page	64 lectures law school @ \$4...	1452	256 00
25	F. W. Prentiss, Cas	Int. due Dec. 1, on \$150,000 certificate of indebtedness..	1453	3,375 00
28	Jas. H. Canfield.....	Salary for Nov. 1896.....	1454	500 00
	T. F. Hunt	10 sal. Nov. inst., 1896.....	1455	250 00
	Edw. Orton.....	"	1456	225 00
	W. H. Scott.....	"	1457	225 00
	S. C. Derby.....	"	1458	225 00
	W. R. Lazenby.....	"	1459	225 00
	J. R. Smith.....	"	1460	225 00
	H. A. Weber.....	"	1461	225 00
	B. F. Thomas.....	"	1462	225 00
	Geo. W. Knight.....	"	1463	225 00
	R. D. Bohannon.....	"	1464	225 00
	D. S. Kellicott.....	"	1465	225 00
	C. N. Brown.....	"	1466	225 00
	A. M. Bleile.....	"	1467	225 00
	W. A. Kellerman.....	"	1468	225 00
	B. L. Bowen	"	1469	225 00
	A. C. Barrows.....	"	1470	225 00

STATEMENT II—Continued.

Date.	To whom paid.	On account of.	No.	Amount.
1896. Nov. 28	W. F. Hunter.....	1-10 sal. Nov. inst., 1896.....	1471	\$225 00
	J. P. Gordy.....	" "	1472	225 00
	W. T. Magruder.....	" "	1473	225 00
	A. L. Williston.....	" "	1474	220 00
	N. W. Lord.....	" "	1475	200 00
	G. B. Kauffman.....	" "	1476	200 00
	J. N. Bradford.....	" "	1477	180 00
	F. A. Ray.....	" "	1478	180 00
	Wm. McPherson.....	" "	1479	180 00
	Edward Orton, Jr.....	" "	1480	180 00
	G. W. McCoard.....	" "	1481	160 00
	H. C. Lord.....	" "	1482	150 00
	F. C. Caldwell.....	" "	1483	140 00
	E. A. Hitchcock.....	" "	1484	140 00
	W. D. Gibbs.....	" "	1485	140 00
	S. A. Norton.....	" "	1486	120 00
	D. S. White.....	" "	1487	120 00
	R. I. Fulton.....	" "	1488	120 00
	T. E. French.....	" "	1489	100 00
	F. C. Clark.....	" "	1490	100 00
	C. E. Sherman.....	" "	1491	100 00
	O. B. Jones.....	" "	1492	100 00
	J. E. Boyd.....	" "	1493	100 00
	C. W. Weick.....	" "	1494	90 00
	W. A. Knight.....	" "	1495	90 00
	J. S. Hine.....	" "	1496	85 00
	C. B. Morrey.....	" "	1497	85 00
	C. W. Foulk.....	" "	1498	80 80
	J. A. Bownocker.....	" "	1499	80 00
	B. A. Eisenlohr.....	" "	1500	80 00
	H. V. Ames.....	" "	1501	80 00
	C. C. Steffel.....	" "	1502	80 00
	C. L. Arnold.....	" "	1503	80 00
	K. D. Swartzel.....	" "	1504	80 00
	C. A. Dye.....	" "	1505	80 00
	C. A. Bruce.....	" "	1506	75 00
	W. L. Graves.....	" "	1507	75 00
	C. W. Burkett.....	" "	1508	70 00
	A. W. Hodgman.....	" "	1509	70 00
	W. F. Lavery.....	" "	1510	70 00
	A. E. Vinson.....	" "	1511	60 00
	T. K. Lewis.....	" "	1512	60 00
	Frank Haas.....	" "	1513	60 00
	E. F. Harrold.....	" "	1514	60 00
	F. L. Landacre.....	" "	1515	60 00
	W. K. Moorehead.....	Salary for Nov., 1896.....	1516	50 00
	C. B. Hine.....	" "	1517	45 00
	Harriet Townshend.....	1-10 sal. Nov. inst., 1896.....	1518	50 00
	F. E. Kester.....	" "	1519	50 00
	W. L. Evans.....	" "	1520	40 00
	J. T. Martin.....	" "	1521	40 00
	R. M. Hughes.....	" "	1522	35 00
	E. F. Coddington.....	" "	1523	30 00
	H. M. Biebel.....	" "	1524	30 00
	J. R. Spurrier.....	" "	1525	30 00
	Maude Jeffrey.....	" "	1526	30 00
	Gertrude Kellicott.....	Library assistant	1527	30 00

STATEMENT II—Continued.

Date.	To whom paid.	On account of.	No.	Amount.
1896. Dec. 2	Sawyer Man Elect Co...	Elect. supplies.....	1584	\$90 88
	Wheeler Reflector Co...	15 Reflectors.....	1585	8 07
	H. M. Biebel.....	50 hrs. wk. @ 15c.....	1586	7 50
	C. R. Hebble.....	52½ " ".....	1587	5 88
	A. E. Loeb.....	233½ " ".....	1588	35 02
	G. B. McNary.....	154½ " 12½c.....	1589	19 30
	L. M. Hartwick.....	159 " 20c.....	1590	31 80
	Blackwood, Green & Co.	Hardware.....	1591	20 00
	E. C. Gee.....	10 hrs. work @ 15c.....	1592	1 50
	F. L. Estep.....	32 " 12½c.....	1593	4 00
	Geo. Martin.....	18 " ".....	1594	2 25
	C. W. Weick.....	Lbr. on pat. for arc lamp posts	1595	19 60
	O. A. Davis.....	50½ hrs. Elect. Plant wk. @ 15c	1596	7 57
	Alex. McAlpine.....	Work done at Lab. Plant.....	1597	9 60
	W. B. Chappel.....	54 hrs. work @ 10c.....	1598	5 40
	H. L. Riddle.....	17 " 12½c.....	1599	2 13
	Florence D. Cope.....	9½ dys. " \$1.50.....	1600	14 25
	Jas. Stainbrook.....	30 days at \$1.50.....	1601	45 00
	H. Goldsmith.....	2 drumsticks.....	1602	1 30
	Ed Morris.....	30 days at \$1.50.....	1603	45 00
	Thos. Boude.....	5 nights at \$1.50.....	1604	7 50
	Z. L. White & Co.....	Shades, etc.....	1605	18 60
	C. O. Paper Co.....	Exam. paper.....	1606	19 00
	Fred Tyler.....	15 hrs. wk. @ 13½c.....	1607	2 00
	G. A. Flickinger.....	55 " ".....	1608	7 33
	C. O. Oil Co.....	1 bbl. oil.....	1609	11 07
	Mitchell Adv. Co.....	Depot time card.....	1610	1 00
	T. J. Godfrey.....	Exp. attending com. meeting.	1611	6 55
	Champlin Ptg. Co.....	Ptg. 1 book 400 receipts.....	1612	3 25
	Alexis Cope.....	Cash advanced, exp. chgs.....	1613	20 00
	Alexis Cope.....	Expenses to Washington.....	1614	40 05
	T. F. Hunt.....	" ".....	1615	43 05
	U. S. Express Co.....	Express charges.....	1616	1 30
	Am. Dist. Teleg. Co.....	Messages.....	1617	1 25
	R. J. Seymour.....	92 hrs. work.....	1618	11 50
	W. Conly.....	58 " ".....	1619	7 25
	G. St. chert.....	Books.....	1620	31 64
	Spahr & Genn.....	400 book plates.....	1621	1 75
	H. L. Fairchild, Sec.....	Books.....	1622	35 00
	R. K. Bowker.....	1 copy trade list, 1896.....	1623	2 00
	J. J. Janney.....	Book.....	1624	2 50
	Robt. Clarke & Co.....	1 Nath. Massie.....	1625	2 00
	J. H. Randall.....	5 hrs. carp. work @ 25c.....	1626	1 25
	Alva McFarland.....	11 " ".....	1627	2 75
	C. H. Woodruff.....	3 " 27 7-9c.....	1628	83
	Taylor Austin Co.....	Books.....	1629	130 11
	J. H. Randall.....	Carp. work.....	1630	13 99
	Alva McFarland.....	" ".....	1631	23 00
	C. H. Woodruff.....	" ".....	1632	40 07
	S. T. Knight.....	Est. No. 3 sewer.....	1633	48 55
	M. & D. Krumm.....	2 fire escapes.....	1634	300 00
	Tallmadge Hdw. Co.....	Hardware.....	1635	3 60
	A. F. Wilcox.....	Labor and materials, etc.....	1636	46 83
	J. R. Spurrier.....	Work on lockers, etc.....	1637	1 04
	J. J. Gheen.....	Work in North Dorm.....	1638	1 00

STATEMENT II—Continued.

Date.	To whom paid.	On account of	No.	Amount.
1896.				
Dec. 3	Kelton & Converse.....	Lumber	1639	\$1 92
	Col. Seed Co	Seeds	1640	18 00
	Blackwood, Green & Co.	Hardware	1641	5 37
	E. C. Green	50 hours work @ 15c	1642	7 50
	Tallmadge Hdw. Co	Hardware	1643	22 06
	Col. Supply Co	Pipe and fittings	1644	124 90
	B. D. Potts	"	1645	5 85
	Col. Supply Co	"	1646	30
	E. J. McNamara	Hose, cocks, etc	1647	2 45
	Col. Brass Co	Castings, etc	1648	63
	J. M. & W. Westwater ..	2 pendants	1649	3 00
	Ohio Pipe Co.....	Pipe	1650	5 40
	Schoedinger Fearn & Co	Gas stove	1651	1 00
	Engelke & Bigelow.....	Freight and cartage	1652	2 77
	D. Singleton	27 hours work @ 45c	1653	12 15
	W. Howells	36 " 15c	1654	5 40
	E. E. Graham.....	14 " "	1655	2 17
	C. A. Wright	225 " "	1656	33 75
	A. E. Peters	17 " "	1657	2 55
	C. Riddle	18 " "	1658	2 78
	K. Nurian	26 " "	1659	3 97
	W. Erdman	39 " "	1660	5 92
	C. A. Grate.....	28 " "	1661	4 20
	R. M. Seward	51 " "	1662	7 72
	E. Smith.....	83 " "	1663	12 45
	C. W. High.....	9 " "	1664	1 35
	W. G. Drummond	72 " 25c	1665	18 00
	The S. Obermayer Mfg. Co	Fittings	1666	82 33
	The Griswold Sohl Co...	Iron rods, etc.....	1667	13 50
	Blackwood, Green & Co	Hardware	1668	48 00
	Orr, Brown & Price....	100 lb. roll sulphur	1669	2 50
	H. Cole.....	Blue print paper	1670	9 40
	E. A. Kinsey & Co.....	Lab. supplies.....	1671	76 55
	Kelton & Converse	Lumber	1672	30 89
	Hanna Paint Mfg Co ...	Oils, etc.	1673	41 09
	Col Sewer Pipe Co.....	Pipe	1674	6 58
	Elliott & McLean.....	Materials for trough	1675	54 50
	Tallmadge Hdw. Co.....	Hardware	1676	22 83
	Fairbanks, Morse & Co	Scale.....	1677	24 40
	A. W. Jackson & Son ...	Mounting blue prints.....	1678	3 84
	Stitt Price & Co.....	3 barrels clay.....	1679	4 50
	Engelke & Bigelow.....	Freight and cartage.....	1680	38 10
	F. W. Prentiss, Treas ...	Int. due on \$90,000 ctf. of indebtedness June 1, 1894 ...	1681	2,700 00
	The Acme Paving Co ...	Cement and sand.....	1682	60 76
	J. M. Westwater.....	2 smoke bells	1683	40
	M. P. Street	17 bbls. cement, labor, etc.....	1684	242 69
	B. D. Potts	Pipe and fittings	1685	16 17
	Col. Supply Co	"	1686	26 59
	Stitt Price & Co	Cement	1687	6 30
	Kelton & Converse.....	Lumber	1688	5 74
	M. and D. Krum.....	Wire fence	1689	154 28
	The Dist Separator Co.	1 separator	1690	60 00
	J. G. Pulling & Co	1 steam pump	1691	100 00
	Blackwood, Green & Co	Hardware	1692	1 12
	J. K. Randall.....	18 hrs. carp. work @ 25c	1693	4 50
	C. H. Woodruff.....	" 27c.....	1694	1 11

STATEMENT II—Continued.

Date.	To whom paid.	On account of.	No.	Amount.
1896. Dec. 3	Alva McFarland.....	6 hrs. carp. work @ 25 cts.....	1695	\$1 50
	Ed. Fiedler.....	18 days @ \$1.50.....	1696	27 00
	Wm. Reynolds.....	21 " 3.00.....	1697	63 00
	Marion Peck.....	26½ " 1.50.....	1698	39 75
	Joe Garretson.....	15 " ".....	1699	22 50
	Henry Powers.....	26½ " ".....	1700	39 15
	Engelke and Bigelow...	Freight and cartage.....	1701	86 06
	C. H. Woodruff.....	4½ hrs. carp. w'k @ 27½ cts....	1702	1 25
	Blackwood, Green & Co	2 alcohol cans.....	1703	2 50
	J. M. & W. Westwater...	1 dozen baking dishes.....	1704	1 80
	J. S. Abbott & Co.....	Hardware.....	1705	2 45
	University supply Co...	4 Osterology.....	1706	9 08
	Bausch & Lomb Opt. Co	Optical instruments.....	1707	158 93
	L. B. Wing.....	Exp. att'g meet'g of ex. com. 10-7, 11-4, 12-2.....	1708	15 00
	E. F. Bigelow.....	10,000 labels.....	1709	7 50
	Fred Charles.....	Hauling.....	1710	3 40
	J. H. Randall.....	7 hrs. carp. w'k @ 25 cts.....	1711	1 75
	Frankenberg Bros.....	700 trays.....	1712	5 25
	Alva McFarland.....	2 hrs. carp. w'k @ 25 cts.....	1713	50
	E. H. Barton.....	9 " ".....	1714	2 25
	C. H. Woodruff.....	4½ " " 27½ cts.....	1715	1 25
	Neski & Huffman.....	Pipe.....	1716	73 80
	C. Jensen.....	Varnishing and kalsomining in chapel.....	1717	84 00
	G'd R'pids Sch. Furn Co	1,129 chairs for chapel.....	1718	3,736 22
	Alexis Cope.....	Cash adv. for setting chairs in chapel.....	1719	65 00
	Engelke & Bigelow.....	Freight and cartage.....	1720	89 10
	Kelton & Converse.....	Lumber.....	1721	32 94
	E. A. Hitchcock.....	Labor of B. Dalgau, etc. cash paid.....	1722	2 65
	Wm. Collins.....	Work in mechanic'l laboratory	1723	28 33
	J. R. Spurrier.....	35 hrs. work.....	1724	5 25
	H. H. Walling.....	Painting tool room.....	1725	8 50
	Kilbourne Jones Co.....	1 exercise ladder.....	1726	2 50
	Col. Supply Co.....	Pipe and fittings.....	1727	15 73
	The Lankenheimer Co..	Valves, etc.....	1728	50 10
	Manville Covering Co...	Sectional covering.....	1729	7 55
	Engelke & Bigelow.....	Freight and cartage.....	1730	3 55
	E. H. Barton.....	4 hrs. work @ 25 cts.....	1731	1 00
	Andrew Earl.....	Lumber.....	1732	19 86
	Col. Wire & Iron W'ks.	Extras on balcony railing.....	1733	25 00
	M. A. Seed Dry Plate Co	Plates.....	1734	1 05
	W. P. Smith.....	Repairs, etc., observatory.....	1735	11 80
	F. Charles.....	Express charge.....	1736	25
	Tallmadge Hdw. Co.....	Hardware.....	1737	70
	N. P. Oglesby.....	100 l ct. stapms, 8 hrs. work @ 12½ cts.....	1738	2 00
	B. D. Potts.....	Pipe and fittings.....	1739	136 78
	C. H. Canfield.....	14 hrs. @ 12½ cts.....	1740	1 75
	Blackwood, Green & Co	Pipe.....	1741	1 78
	D. Y. Murdock.....	Advertising.....	1742	10 00
	Champlain Ptg. Co.....	Ptg. letter heads, bulletins, etc	1743	30 75
	J. H. Randall.....	20 hrs. @ 25 cts.....	1744	5 00
	Alva McFarland.....	6 " ".....	174	1 50

STATEMENT II—Continued.

Date.	To whom paid,	On account of.	No.	Amount.
1896.				
Dec. 3	C. H. Woodruff.....	7 hrs. carpenter wrk. @ 27½c...	1746	\$1 94
	Schoedinger Fearn & Co	Hardware	1747	1 55
	Hall, Carlile & Bingham	1 bbl. plaster, etc.....	1748	2 50
	Hirschberg Hollander Co	1 set models.....	1749	1 40
4	Elliot & McLean.....	Lumber	1750	9 48
	C. A. Grate.....	45 hours work.....	1751	6 75
	Murry City Coal Co.....	Coal	1752	15 01
	E. A. Cole & Co.....	"	1753	335 81
	C. H. Woodruff.....	12 hours @ 22½c.....	1754	2 68
	Alva McFarland.....	12½ " @ 25c.....	1755	3 12
	E. H. Barton.....	15 " ".....	1756	3 75
	J. H. Randall.....	57½ " wk. ".....	1757	14 37
	Andrew Earl.....	Lumber	1758	12 55
	Tallmadge Hdw. Co.....	Hardware	1759	10 58
	Col. Construction Co.....	Est. No. 2, Biological Bldg....	1760	690 00
	K. B. Gerke.....	Work in ceramics department	1761	8 85
	Col's Transfer Co.....	Freight & cartage	1762	1 34
	L. E. Barringer.....	Work in ceramics depaament	1763	14 96
	Alva McFarland.....	10½ hours work @ 25c.....	1764	2 62
	Dunn, Taft & Co.....	2 dozen tape measures.....	1765	1 00
	Blackwood, Green & Co..	Hardware	1766	6 13
	Payne-McDonald Hdw.Co	"	1767	23 69
	Kemp & Burpee, Mig. Co	Manure spreaders.....	1768	3 00
	H. Cole.....	1 Thermometer etc.....	1769	6 25
	Col. Paint Mfg. Co	Paints etc.....	1770	1 75
	E. W. Pegg.....	Cows etc.....	1771	186 80
	Kauffman, Lattimer & Co	Chemicals.....	1772	317 93
	D. Spencer.....	Est. No. 2 Gallery Library.....	1773	850 00
	Geo. C. Barns.....	Fees refunded law school.....	1774	40 00
	D. M. Massie.....	Exp.att'g com.meet'g 11-18 12-2	1775	12 60
	The Eastman Kodac Co..	14 dozen plates	1776	8 10
	Kimball & Mathews.....	Photo supplies	1777	6 03
	Tracy Wells Co.....	Gum tags.....	1778	1 80
	Blackwood, Green & Co..	Hardware	1779	28 25
	Baker & Co.....	10 discs.....	1780	20 10
	Engelke & Bigelow.....	Freight & cartage	1781	2 81
	Kauffman, Lattimer Ca..	Chemicals	1782	136 22
	A. H. Smythe.....	Box crayon etc.....	1783	1 25
	Frankenberg Bros.....	700 trays	1784	3 75
	Tallmadge Hdw. Co.....	Hardware	1785	65
	Blackwood, Green & Co..	1 copper can.....	1786	3 00
	Alva McFarland.....	14 hours @ 25c.....	1787	3 50
	J. H. Randall.....	15½ " ".....	1788	3 87
	C. H. Woodruff ..	7½ " @ 27½c.....	1789	2 08
	C. S. Hawley.....	18 " @ 12½c.....	1790	2 25
	C. B. Guittard.....	14 " ".....	1791	1 75
	C. T. Herbert.....	104 " ".....	1792	13 00
	Allen Metters.....	20 " ".....	1793	2 50
	C. K. McClelland.....	120 hours @ 12½c.....	1794	15 00
	F. S. Johnston.....	104 " @ 12½c.....	1795	13 00
	Taylor, Austin Co.....	Books	1796	21 93
	Ginn & Co.....	1 book.....	1797	94
	Patterson Dec'tive Ho'se.	Papering	1798	171 60
	J. M. & W. Westwater....	Brackets, fixtures etc.....	1799	263 00
	Paul Jones.....	13 lectures,law sch.Oct-Nov,'96	1800	52 00

STATEMENT II—Continued.

Date.	To whom paid.	On account of.	No.	Amount.
1896.				
Dec. 4	J. H. Randall	34 hours @ 25c.....	1801	\$8 00
	Tallmadge Hdw Co.....	Hardware	1802	8 40
	Kelton & Converse	Lumber	1803	26 20
	M. P. Street.....	1 ash bin.....	1804	46 60
	E. H. Barton.....	7 hours @ 25c.....	1805	1 75
	Bissell-Dodge-Erner Co	6 mic. calipers	1806	4 95
	Tallmadge Hdw. Co	1 brass rod	1807	25
	General Electric Co	Motor and sundries.....	1808	125 00
	L. M. Hartwick.....	1½ hours lab. work @ 20c	1809	30
	L. E. Jennings.....	11 hours copying @ 15c.....	1810	1 65
	H. S. Riddle	17 hours lrb. work @ 12½c.....	1811	2 12
	Col. Construction Co ...	Lab., mak'g tests, Towns. Hall	1812	47 67
	"	Est. No. 2, Towns. Hall	1813	721 83
	"	Est. No. 3, armory and gym....	1814	3,409 27
	Yost & Packard	Services as architects.....	1815	1,078 90
	S. T. Knight	Est. No. 2, tunnel to Armory and Gym. and Biol. Bldg.....	1816	1,729 00
	Necki & Huffman	693 ft. of pipe, fittings and lab	1817	75 97
5	Nichol & Carr.....	Est. No. 4 on imp. of Chapel....	1818	3,693 10
	E. B. Kinkad.....	13 lectures, law school	1819	52 00
7	F. W. Prentiss, Treas ...	Draft in pay. of copies G. L. O	1820	16 65
	Columbus Gas Co	Gas to Nov. 28, 1896, 2 mo.....	1821	118 95
8	E. A. Kinsey & Co.....	Balance due acc. app. Dec. 2, '96	1822	40 00
	Columbus Gas Co.....	Gas for Aug. and Oct. '96.....	1823	124 80
12	W. R. Lazenby	1-10 sal. Dec. inst., 1896.....	1824	225 00
14	F. M. Senter, P. M.....	200 2c, 100 1c stamps.....	1825	5 00
16	W. I. Chamberlain.....	Exp. att'g meet., Dec. 16.....	1826	18 61
17	Alexis Cope	Exp. of tru's, 6 m's Dec. 17, '96	1827	4 50
	D. M. Massie	Exp. meet'gs, Dec. 16 & 17, '96	1828	13 60
18	J. J. Gheen	Rep. plastering, Pres. house....	1829	15 00
19	J. H. Canfield.....	Salary for Dec. 1896.....	1830	500 00
	T. F. Hunt	1-10 salary Dec. inst., 1896.....	1831	250 00
	Edw. Orton	"	1832	225 00
	W. H. Scott	"	1833	225 00
	S. C. Derly	"	1834	225 00
	J. R. Smith.....	"	1835	225 00
	H. A. Weber.....	"	1836	225 00
	B. F. Thomas	"	1837	225 00
	G. W. Knight.....	"	1838	225 00
	R. D. Bohannon.....	"	1839	225 00
	D. S. Kellicott.....	"	1840	225 00
	C. N. Brown.....	"	1841	225 00
	E. A. Eggers	"	1842	225 00
	A. M. Bleile	"	1843	225 00
	W. L. Kellerman	"	1844	225 00
	B. L. Bowen	"	1845	225 00
	A. C. Barrows	"	1846	225 00
	J. V. Denney	"	1847	225 00
	W. F. Hunter.....	"	1848	225 00

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STATEMENT II.—Continued.

Date.	To whom paid.	On account of	No.	Amount.
1896.				
Dec. 19	J. P. Gordy.....	1-10 Salary Dec. inst., 1896.....	1849	\$225 00
	W. T. Magruder	" "	1850	225 00
	A. L. Williston.. ..	" "	1851	220 00
	N. W. Lord.....	" "	1852	200 00
	Geo. B. Kauffman	" "	1853	200 00
	J. N. Bradford	" "	1854	180 00
	F. A. Ray.....	" "	1855	180 00
	Wm. McPherson.....	" "	1856	180 00
	Edw. Orton, Jr.....	" "	1857	180 00
	G. W. McCoard.....	" "	1858	160 00
	H. C. Lord.....	" "	1859	150 00
	F. C. Caldwell	" "	1860	140 00
	E. A. Hitchcock	" "	1861	140 00
	W. D. Gibbs.....	" "	1862	140 00
	S. A. Norton.....	" "	1863	120 00
	D. S. White.....	" "	1864	120 00
	R. I. Fulton.....	" "	1865	120 00
	T. E. French.....	" "	1866	100 00
	F. C. Clark.....	" "	1867	100 00
	C. E. Sherman.....	" "	1868	100 00
	O. B. Jones.....	" "	1869	100 00
	J. E. Boyd.....	" "	1870	100 00
	C. W. Weick.....	" "	1871	90 00
	W. A. Knight.....	" "	1872	90 00
	J. S. Hine.....	" "	1873	85 00
	C. B. Morrey.....	" "	1874	85 00
	C. W. Foulk.....	" "	1875	80 00
	J. A. Brownocker	" "	1876	80 00
	B. A. Eisenlohr	" "	1877	80 00
	H. V. Ames.....	" "	1878	80 00
	C. C. Steffel.....	" "	1879	80 00
	C. L. Arnold.....	" "	1880	80 00
	K. D. Swartzel.....	" "	1881	80 00
	C. A. Dye.....	" "	1882	80 00
	C. A. Bruce.....	" "	1883	75 00
	W. L. Graves.....	" "	1884	75 00
	C. W. Burkett.....	" "	1885	70 00
	A. W. Hodgman.....	" "	1886	70 00
	W. F. Lavery.....	" "	1887	70 00
	A. E. Vinson.....	" "	1888	60 00
	T. K. Lewis.....	" "	1889	60 00
	Frank Haas.....	" "	1890	60 00
	E. E. Harrold.....	" "	1891	60 00
	F. L. Landacre	" "	1892	60 00
	W. K. Moorehead.....	Salary for December, 1896.....	1893	50 00
	C. B. Hine.....	" "	1894	45 00
	Harriet Townshend.....	1-10 Salary Dec. inst., 1896.....	1895	50 00
	F. E. Kester.....	" "	1896	50 00
	W. L. Evans.....	" "	1897	40 00
	John T. Martin.....	" "	1898	40 00
	R. M. Hughes.....	" "	1899	35 00
	E. F. Coddington	" "	1900	30 00
	H. M. Biebel.....	" "	1901	30 00
	J. R. Spurrier.....	" "	1902	30 00
	Maud Jeffrey.....	" "	1903	30 00
	Gertrude Kellicott.....	Work in Library.....	1904	30 00
	A. C. Harvey.....	1-10 Salary Dec. inst., 1896.....	1905	25 00

STATEMENT II—Continued.

Date.	To whom paid.	On account of.	No.	Amount.
1896.				
	W. R. Beattie.....	Salary for Dec., 1896.....	1906	\$50 00
	Alexia Cope.....	" ".....	1907	187 50
	W. C. McCracken.....	Salary to date.....	1908	250 00
	W. B. Calkins.....	90 hours lab. work.....	1909	13 50
	Geo. R. Rose.....	Salary for Dec., 1896.....	1910	65 00
	Chas. Low.....	" ".....	1911	54 17
	Jean Blackford.....	" ".....	1912	50 00
	Edith Cockins.....	" ".....	1913	50 00
	Wm. Whistestine.....	" ".....	1914	45 00
	W. Standley.....	" ".....	1915	45 00
	T. Bond.....	" ".....	1916	45 00
	B. LeBay.....	" ".....	1917	45 00
	Jas. Kelly.....	" ".....	1918	41 67
	F. B. Brewer.....	" ".....	1919	40 00
	John Conrad.....	" ".....	1920	40 00
	John E. Adams.....	" ".....	1921	40 00
	Wash Tounshend.....	" ".....	1922	30 00
	Ed Stalter.....	" ".....	1923	20 00
	H. Judd.....	" ".....	1924	20 00
	A. L. Buckman.....	" ".....	1925	20 00
	J. B. Parker.....	" ".....	1926	13 50
	Robt. Fischer.....	" ".....	1927	10 00
	E. T. Watson.....	" ".....	1928	10 00
	H. McF. Ball.....	On account of salary.....	1929	50 00
	F. W. Prentiss.....	Salary for Dec., 1896.....	1930	33 33
	G. W. Fahrion.....	80 sacks Mexican ores.....	1931	45 00
	E. M. Wilcox.....	Salary for Dec., 1896.....	1932	30 00
	N. P. Ogleby.....	39 hrs. lab. work.....	1933	4 50
21	J. H. Collins.....	19 lectures Law School, Sept., Oct. and Nov.....	1934	76 00
22	John T. Mack.....	Expenses attending meetings, Dec. 15, 16 and 18.....	1935	19 25
24	Paul Jones.....	19 law lectures, Dec., 1896.....	1936	40 00
26	Alexis Cope.....	Cash advanced for expenses, etc.....	1937	20 00
30	Spahr & Glenn.....	50 copies brief, O. S. U. vs. Folsom.....	1938	63 75
31	C. H. Irwin.....	62 hours janitor work @ 15 cents.....	1939	9 30
1897.				
Jan. 4	The Lantern.....	Advertising in Lantern, 1896-7.....	1940	50 00
	C. W. Waid.....	80 hours work @ 15c.....	1941	12 00
	E. B. Kinkead.....	13 lectures, Law School.....	1942	52 00
	D. F. Pugh.....	13 " ".....	1943	52 00
	C. U. Telephone Co.....	Telephone rent.....	1944	47 35
	Tallmadge Hdw. Co.....	Hardware.....	1945	95
	Tracy-Wells Co.....	Brooms, mops, etc.....	1946	7 45
	H. Braun Sons & Co.....	5 gals. boiled oil, etc.....	1947	2 55
	R. Brandt.....	Packing.....	1948	8 20
	Col. Supply Co.....	Pipe and fittings.....	1949	15 96
	Richmond Choir Co.....	100 chairs.....	1950	80 00
	J. T. Martin.....	Stamps, etc.....	1951	50
	Webb Stat'y & Ptg. Co.....	Stationery and blank books.....	1952	26 30
	D. H. Baldwin & Co.....	Cartage on piano.....	1953	3 00
	C. O. Paper Co.....	Paper.....	1954	35
	Nitschke Bros.....	Stationery.....	1955	3 15
	G. Schroeder & Co.....	Tuning piano.....	1956	2 00

STATEMENT II—Continued.

Date.	To whom paid.	On account of.	No.	Amount.
1897.	D. C. Beggs & Co	Shades	1957	\$12 70
Jan. 4	Standard Oil Co	Oils	1958	72 29
	W. U. Telegraph Co.....	Messages	1959	2 66
	Chicago Addressing Co.....	Mailing list of 3M. addresses..	1960	8 00
	Water Dept.	Pipe labor, etc.....	1961	63 04
	Gertrude Kellicott.....	11 hrs. work executive office ..	1962	1 37
	Alexis Cope	Cash adv. express charge, etc.	1963	15 50
	Jas. Stainbrook	31 days work @ \$1.50	1964	46 50
	Marion Peck	6 " "	1965	9 00
	Ed. Morris	29 " "	1966	43 50
	Henry Powers.....	31 " "	1967	46 50
	Mary H. Cope	Clerical ass't during Dec. 1896	1968	40 00
	G. A. Flickinger.....	Janitor work December 1896 ..	1969	23 00
	I. H. Miller	Affidavits	1970	2 40
	T. Ewing Miller	Office rent, gas, etc	1971	111 90
	Marion Peck	26 days @ \$1.50	1972	39 00
	J. M. & W. Westwater..	Gas fixtures	1973	2 00
	Westinghouse Elect. Co	Collector, brushes, etc	1974	2 10
	D. H. Derflinger.....	25 gals. gasoline.....	1975	2 50
	Bissell, D'ge & Erner Co	Electrical supplies.....	1976	126 32
	A. Earl	Lumber	1977	1 44
	Col Supply Co	Pipe and fittings.....	1978	103 95
	Kelton & Converse	Lumber	1979	2 73
	Blackwood, Green & Co	Castings, labor, etc	1980	3 10
	C. H. Woodruff.....	9 hrs. carp. w'k @ 27½ cents...	1981	2 50
	G. R. Rose	21 hrs. work @ 40 cents.....	1982	8 40
	Col Gas Co.....	Glass chimneys, mantels, etc...	1983	2 35
	Fish Stone Co.....	Labor tearing down wall, etc...	1984	19 25
	Cap. City Mch. Works ..	Elec. light brackets, etc.....	1985	19 11
	Schiff, Jordon & Co.....	1,000 alt. carbon, etc	1986	18 51
	A. G. Fritchey.....	5 gallons gasoline.....	1987	50
	Schilling Fdy. Co.....	Castings, etc	1988	25 44
	Col. Ed. Elect. Light Co	Insulators	1989	60
	J. J. Murray & Co.....	Globes	1990	7 00
	Siemens & Halske E. Co	Fittings and globes, arc lamps, etc	1991	183 10
	F. L. Estep.....	48 hours work, etc.....	1992	6 35
	H. S. Riddle.....	60 hrs. work @ 15 cents, car fare 30 cents.....	1993	7 80
	A. E. Loeb	223 hours work @ 15 cents....	1994	33 45
	W. E. Chappell	34 " 12½ cents.....	1995	4 25
	M. A. Pixley	185 " 15 cents.....	1996	27 75
	J. A. Garretson	5½ " 16¾ cents	1997	91
	Schoedinger, F'r'n & Co.	Bolts, nuts, screws, etc.....	1998	17 18
	Standard U. Cable Co...	Wire, reels, etc	1999	9 99
	F. W. Prentiss, Treas ...	Blankbook as per bill.....	2000	9 35
	The Griswold Sohl Co..	Iron rods.....	2001	5 00
	Col. Gas Co.....	50 bu. coke	2002	4 00
	Hanna Paint Mfg. Co...	1 gal. perfect surface.....	2003	1 25
	E. A. Kinsey & Co.....	Crucibles.....	2004	4 55
	Case Mfg. Co	Iron pulleys.....	2005	8 50
	Tallmadge Hdw. Co.....	Hardware	2006	30 25

STATEMENT II--Continued.

Date.	To whom paid.	On account of	No.	Amount.
1897.				
Jan. 4	Nitschke Bros.....	1,000 sheets blank paper	2007	\$1 50
	Cap. City Mch. Co.....	Belts, etc.....	2008	23 12
	Aquila Rich & Co	Steel wool shavings, etc.....	2009	2 98
	G. B. Schulte Sons Co ..	Supplies, iron	2010	41 30
	Samson Cutter Herd Co	Groove heads.....	2011	4 55
	Stitt Price & Co	Cement	2012	2 00
	Byran & Co.....	Furnace.....	2013	160 00
	L. Obermayer Co	Brick, etc.....	2014	17 20
	Kelton & Converse	Lumber	2015	88 41
	Fish Press Brick Co.....	2,000 brick	2016	10 00
	P. Hayden Hdw. Co.....	Pig iron, etc.....	2017	90 81
	Blackwood Green & Co.	Galv. iron work	2018	77 79
	T. F. Hunt.....	Exp. att'g Far. Inst. Dec. 4-96.	2019	2 50
	Col. Construction Co.....	Est. No. 3 Townshend Hall....	2020	3,214 83
	D. Singleton.....	29 hrs. wk. @ 45c	2021	13 05
	B. Schilling.....	35 " " 35c	2022	12 25
	L. A. Eby	40 " " 25c	2023	10 00
	W. Howells.....	37 " " 15c	2024	5 55
	C. A. Wright	63 " "	2025	9 52
	J. B. Wright.....	31 " "	2026	4 72
	A. M. Seward	69 " "	2027	10 39
	A. D. Harward.....	15 " "	2028	2 29
	F. E. Wright	16 " "	2029	2 47
	E. E. Graham	38 " "	2030	5 77
	K. Murian.....	97 " "	2031	14 55
	F. J. Hale.....	11 " "	2032	1 72
	A. E. Peters	20 " "	2033	3 07
	A. N. Cope	84 " "	2034	12 60
	W. Edman.....	18 " "	2035	2 75
	F. L. Estep.....	14 " "	2036	2 10
	C. Riddle.....	52 " "	2037	7 84
	E. F. Smith	62 " "	2038	9 37
	A. L. Williston	Labor paid for	2039	18 75
	S. C. Perry	25 hrs. wk. @ 12 1/2c	2040	3 12
	F. Tyler.....	9 " "	2041	1 12
	W. Conley.....	38 " "	2042	4 75
	J. C. Britton.....	53 " "	2043	6 62
	A. G. McCall.....	34 " "	2044	4 34
	A. J. Chantler.....	33 " "	2045	4 19
	D. W. Galehouse.....	13 " "	2046	1 62
	J. A. Thompson.....	15 " "	2047	1 93
	F. W. Schaeffer.....	62 " "	2048	7 78
	J. S. Parsons.....	30 " "	2049	3 75
	J. S. Brown	26 " "	2050	3 31
	J. E. Alpeton	42 " "	2051	5 31
	H. Chantler	46 " "	2052	5 81
	Kilb'ne & Jacobs M'g Co	Handle for plow.....	2053	1 00
	Edw. Orton, Jr	Bill paid Ohio Tool Co.	2054	25
	A. R. Campbell.....	25 1/2 hrs. wk. @ 12 1/2c	2055	3 18
	A. V. Bleininger	76 " "	2056	9 50
	K. O. Gerke	58 " "	2057	7 30
	W. G. Worcester.....	58 " "	2058	7 35
	Standard Oil Co	Gasoline	2059	7 07
	Col. Gas Co.....	30 1/2 bu. coke.....	2060	19 56
	L. E. Barringer.....	30 1/2 hrs. wk. @ 12 1/2c	2061	3 81

STATEMENT II--Continued.

Date.	To whom paid.	On account of.	No.	Amount.
1896.				
Jan. 4	Wiseman & Lilley.....	Cheese cloth, etc.....	2062	4 23
	Blackwood, Green & Co	1 pr. shears, etc.....	2063	1 40
	D. E. Robinson.....	Letter book and file	2064	2 15
	Franklin Ptg. Co	Circulars, programs.....	2065	7 25
	F. S. Johnston.....	16 hrs. clerical work @ 12½c ..	2066	20 12
	Col. Supply Co	Pipe and fittings	2067	48 45
	Cap. City Mch. Wks	Castings, etc.....	2068	167 69
	B. D. Potts	Pipe and fittings.....	2069	103 48
	Blackwood, Green & Co	Galv. iron work	2070	97 35
	Engelke & Bigelow.....	Freight and cartage	2071	101 47
	Schoedinger, Fearn & Co	10 spools wire.....	2072	50
	Kauffman-Lattimer Co..	Chemicals.....	2073	93 92
	E. H. Barton	5 hrs. carp. work @ 25c	2074	1 25
	J. H. Randall	13 " " "	2075	3 25
	A. H. Smythe.....	3 wire racks, etc.....	2076	2 35
	G. E. Stechert.....	Books, etc.....	2077	8 50
	McClelland & Co	Rubber bands, etc	2078	2 15
	Boston Book Co	Books	2079	70 00
	Taylor-Austin Co	"	2080	31 58
	Murray City Coal Co.....	Coal	2081	22 37
	Cols. Gas Co.....	Pipe, etc., and laying	2082	394 76
	E. A. Cole & Co.....	Coal del. in Nov. and Dec., '96..	2083	870 84
	Nitschke Bros.....	Bulletins, etc	2084	92 00
	Phelps Pub. Co.....	Advertising	2085	10 87
	The Brown-Bierce Co ...	3 etchings of photo	2086	3 60
	Harper Ills Syndicate...	Adv. cuts.....	2087	8 65
	T. F. Hunt.....	Money paid for photos. for cuts	2088	1 25
	Toledo Com'l Co	Advertising	2089	9 40
	Nitschke Bros.....	250 certificates.....	2090	3 50
	World Pub. Co	Advertising	2091	9 07
	Champlin Ptg. Co	Envelopes, etc.....	2092	9 10
	Ferree & Sons.....	Ice	2093	1 05
	Bausch & Lomb Opt. Co	Opt. instruments	2094	10 20
	W. T. Falconer Mfg. Co	Blocks	2095	3 00
	D. S. Kellicott.....	Animals, etc., for dissection...	2096	9 85
	C. K. McClelland	120 hrs. library work.....	2097	15 00
	C. T. Herbert.....	124 " "	2098	15 00
	W. Bohannon.....	Latches, etc	2099	2 31
	Col. Supply Co	Pipe and fittings.....	2100	2 04
	Manville Covering Co...	Sectional covering.....	2101	1 49
	Boston Belting Co	1 belt	2102	1 00
	C. M. Ruhlen.....	13 hrs. work @ 12½c ..	2103	1 63
	Dallas Jennings	2 days' work.....	2104	4 00
	Talmadge Hdw. Co	Hardware	2105	1 60
	"	"	2106	40
	Taylor Austin Co	Books	2107	72 21
	A. H. Smythe	1 resister (Whites)	2108	60
	H. S. King	Work in chem. lab	2109	1 00
	Blackwood, Green & Co	1 gal. iron still	2110	7 50
	Taylor, Austin Co	Books	2111	23 60
	Taylor Mant. & Grate Co	Book cases, etc	2112	197 00
	Bissell-Dodge-Erner Co	Elec. supplies	2113	97 41
	Std. School Furn Co....	Blackboards	2114	188 45
	Knoxon & Toomey	Stage scenery and chapel	2115	232 10
	Blackwood, Green & Co	7 sheets tin, etc.....	2116	4 44

STATEMENT II—Continued.

Date.	To whom paid.	On account of.	No.	Amount.
1897.				
Jan. 4	Hall, Carlile & Bingham	1 bbl. plaster	2117	\$2 50
	C. Hemecke Co.....	Blocks	2118	21 09
	H. Cole.....	4 transit poles.....	2119	9 00
	Payne, McDonald Hdw. Co	Hardware	2120	19 68
	Cherrington Ptg.&Eng. Co	1 set price markers.....	2121	7 25
	Franklin Ptg. Co.....	500 daily reports, etc.....	2122	10 25
	Deering Harvester Co...	Repairs, mower, etc.....	2123	41 75
	Nitschke Bros.....	1,000 envelopes	2124	2 50
	Wm. Burdell, Jr....	Repairing harness, etc ..	2125	9 70
	Kimball & Mathews	Plates, etc	2126	1 40
	Blackwood, Green & Co.	Hardware	2127	8 75
	Krauss, Butler & Benham	Cork carpet, etc.....	2128	450 25
	Col. Const. Co.....	Est. No. 4 Arm. and Gym.....	2129	1,140 00
	Col. Const. Co.....	Est. No. 3 Biolog. bldg	2130	510 15
	D. C. Beggs & Co.....	3 shades.....	2131	5 55
	A. H. Smythe.....	3 boxes key tags.....	2132	75
	R. J. Seymour	155 hrs. guide work.....	2133	19 37
	W. Conly.....	67 " "	2134	8 37
7	Jeffrey Mfg. Co.....	Special spout.....	2135	25 00
	Chapman Valve Mfg. Co	Bronze seated valve.....	2136	7 57
	Babcock & Wilcox Co...	2 steam gauges, etc.....	2137	98 75
	F. M. Fornof	Labor, cement and brick.....	2138	83 30
	Watert'n Steam Eng.Co	1 engine.....	2139	1,450 40
	Joe Garretson	23½ days work @ \$1.50.....	2140	35 25
	Walter Chantler	7 " "	2141	10 50
8	W. H. Page.....	24 lectures, law school.....	2142	168 00
9	D. M. Massie	Exp. to Cin. on business of Board	2143	9 55
10	W. F. Hunter	Serv. as sec. law faculty, 4 mo..	2144	100 00
14	D. Spencer & Son	Plastering rooms, etc	2145	6 50
	S. T. Knight	Final est. sewer.....	2146	42 80
	J. L. D. Nichols.....	7 days, 8 hrs. work @ \$1.50.....	2147	11 70
	T. Draper	Globe valve facers	2148	5 75
	BurgessSolder'gFurnCo	Repairs.....	2149	75
	Tallmadge Hdw. Co....	Hardware	2150	14 51
	A. Earl.....	Lumber	2151	3 75
	Schoedinger, Fearn & Co	Hardware	2152	3 00
	Kelton & Converse	Lumber	2153	5 39
	Alva McFarland	6 hrs. carp. wk. @ 25c.....	2154	1 50
	C. H. Woodruff	Amt. due on contract, etc	2155	260 88
	E. H. Barton.....	43 hrs. carp. wk. @ 25c.....	2156	10 75
	J. H. Randall	20 " "	2157	5 00
	Tallmadge Hdw. Co....	Hardware.....	2158	3 85
	C. O. Paper Co.....	1 case toilet paper.....	2159	7 50
	Adams Express Co.....	Exp. charges.....	2160	1 30
	McClelland & Co	Waste baskets, rubber bands, etc.....	2161	4 01
	W. U. Telegraph Co.....	Messages.....	2162	2 59
	Henry Powers.....	12 days @ \$1.50.....	2163	18 00
	W. F. Lavery	7½ " "	2164	11 25
	The Press-Post Ptg. Co..	Adv. props.....	2165	15 74
	Col. Gas Co.....	Gas	2166	132 00
	Murray City Coal Co....	Coal	2167	34 84
	M. P. Street.....	Cement, floor boiler house	2168	46 20
	Tallmadge Hdw. Co....	Hardware	2169	40
	Kelton & Converse	Lumber.....	2170	24 70

STATEMENT II—Continued.

Date.	To whom paid.	On account of.	No.	Amount.
1897.				
Jan. 14	Alva McFarland.....	28 hrs. carp. work @ 25c.....	2171	\$7 00
	E. H. Barton	18½ " " ".....	2172	4 62
	C. H. Woodruff.....	18½ " " " 27½c.....	2173	3 75
	J. H. Randall	25½ " " " 25c.....	2174	6 37
	Jeffrey Mtg. Co.....	Ash handling machinery.....	2175	1,057 00
	Tallmadge Hdw. Co.....	Hardware	2176	8 08
	Andrew Earl	Lumber.....	2177	61 08
	Alva McFarland.....	49 hrs. carp. work @ 25c.....	2178	12 25
	C. H. Woodruff.....	25½ " " " ".....	2179	6 64
	J. H. Randall	45 " " " ".....	2180	11 25
	M. Keith	5 " " " ".....	2181	1 25
	E. H. Barton	53 " " " ".....	2182	13 25
	Hann & Adair.....	1,000 labels.....	2183	1 75
	J. H. Randall.....	14 hrs. carp. work @ 25c.....	2184	3 50
15	Kelton & Converse.....	Lumber.....	2185	2 00
	Edwin Hunt's Sons.....	Locks.....	2186	7 50
	Blackwood, Green & Co.	Oil cans, sheet tin, etc.....	2187	11 05
	S. T. Knight.....	Est. No. 3 tunnel	2188	1,167 00
	Col. Supply Co.....	Pipe and fittings.....	2189	35 53
	L. Veit & Co.....	Knives sharpened.....	2190	2 00
	A. Earl	Lumber.....	2191	19 61
	Tallmadge Hdw. Co.....	Hardware	2192	40
	J. H. Randall.....	5½ hrs carp. work @ 25c.....	2193	1 37
	E. H. Barton.....	15½ " " " ".....	2194	3 87
	Alva McFarland.....	5½ " " " ".....	2195	1 37
	A. H. Smythe.....	1,000 library cards	2196	2 25
	Col. Supply Co.....	Oil cups.....	2197	1 70
	Kelton & Converse.....	Lumber.....	2198	4 37
	C. E. Gregory & Co.....	Switches	2199	6 00
	Westinghouse Elec. Co.	Motor.....	2200	206 20
	Tallmadge Hdw. Co.....	Hardware	2201	1 10
	F. L. Estep.....	48 hours work @ 12½c.....	2202	6 00
	H. S. Riddle.....	21 " " 15c.....	2203	3 15
	J. H. Randall	13 " carp. work @ 25c.....	2204	3 25
	E. H. Barton.....	9 " " " ".....	2205	2 25
	A. E. Loeb.....	32½ " work @ 15c.....	2206	4 87
	Andrew Earl.....	Lumber.....	2207	4 30
	Ben D. Potts.....	Pipe and fittings.....	2208	2 25
	Col. Seed Co.....	Bulbs	2209	7 15
	Blackwood, Green & Co.	2 boxes glass, etc	2210	8 19
	D. Spencer.....	Est. No. 3 library gallery.....	2211	150 00
	Jeffrey Mfg. Co.....	" No. 4 coal conveyor.....	2212	279 24
	Lewis Fink.....	225 feet pine moulding..	2213	4 50
	Kelton & Converse.....	Lumber.....	2214	27 08
	Tallmadge Hdw. Co.....	Hardware	2215	25 69
	E. H. Barton.....	67 hrs. carp. work @ 25c.....	2216	16 75
	J. H. Randall	64 " " " ".....	2217	16 00
	Alva McFarland.....	46½ " " " ".....	2218	11 62
	M. Keith	146 " " " ".....	2219	36 50
	C. H. Woodruff.....	70 " " " 27½c.....	2220	19 44
	M. Keith, Jr.....	114 " " " 20c.....	2221	22 80
	Andrew Earl.....	Lumber	2222	179 86
	Kelton & Converse.....	"	2223	31 36
	Freda Detmers.....	27 hrs. work @ 15c.....	2224	4 05
	Bausch & Lomb Op. Co.	Microscopes.....	2225	199 79
	Col. Gas Co.....	Coke	2226	15 50
	Baker & Co.....	2 plat. dishes.....	2227	10 23

STATEMENT II—Continued.

Date.	To whom paid.	Account of.	No.	Amount.
1897.				
Jan. 15	Kimball & Matthews ...	Photo supplies	2228	\$1 49
	Blackwood, Green & Co	5 ovens.....	2229	20 00
	Baker & Adamson.....	Chemicals	2230	23 75
	Kauffman-Lattimer Co..	"	2231	36 67
	F. M. Senter, P. M.....	500 2c stamps.....	2232	10 00
18	"	200 2c, 300 1c, 100 3c stamps...	2233	10 00
	Col. Construction Co....	Cash advanced to pay laborers		
		Towns. Hall	2234	956 90
19	E. O. Randall.....	13 lectures law school.....	2235	52 00
25	Col. Construction Co ...	Payroll Jan. 23, 1897, Towns.		
		Hall.....	2236	461 25
28	J. H. Canfield.....	Salary for January, 1897.....	2237	500 00
	T. F. Hunt	1-10 salary January inst. 1897	2238	250 00
30	Edw. Orton.....	"	2239	225 00
	W. H. Scott	"	2240	225 00
	S. C. Derby.....	"	2241	225 00
	W. R. Lazenby	"	2242	225 00
	J. R. Smith.....	"	2243	225 00
	H. A. Weber.....	"	2244	225 00
	B. F. Thomas.....	"	2245	225 00
	G. W. Knight.....	"	2246	225 00
	R. D. Bohannon	"	2247	225 00
	D. S. Kellicot.....	"	2248	225 00
	C. N. Brown.....	"	2249	225 00
	E. A. Eggers	"	2250	225 00
	A. M. Bleile	"	2251	225 00
	W. A. Kellerman.....	"	2252	225 00
	B. L. Bowen.....	"	2253	225 00
	A. C. Barrows.....	"	2254	225 00
	J. V. Denney.....	"	2255	225 00
	W. F. Hunter.....	"	2256	250 00
	J. P. Gordy.....	"	2257	225 00
	W. T. Magruder	"	2258	225 00
	A. L. Williston	"	2259	220 00
	N. W. Lord.....	"	2260	200 00
	G. B. Kauffman.....	"	2261	200 00
	J. N. Bradford	"	2262	180 00
	F. A. Ray.....	"	2263	180 00
	Wm. McPherson.....	"	2264	180 00
	Edw. Orton, Jr	"	2265	180 00
	Geo. W. McCoard.....	"	2266	160 00
	H. C. Lord	"	2267	150 00
	F. C. Caldwell	"	2268	140 00
	E. A. Hitchcock	"	2269	140 00
	W. B. Gibbs	"	2270	140 00
	S. A. Norton	"	2271	120 00
	D. S. White	"	2272	120 00
	R. I. Fulton	"	2273	120 00
	T. E. French	"	2274	100 00
	F. C. Clark	"	2275	100 00
	C. E. Sherman.....	"	2276	100 00
	O. B. Jones	"	2277	100 00
	J. E. Boyd	"	2278	100 00
	C. W. Weick.....	"	2279	90 00
	W. A. Knight	"	2280	90 00

STATEMENT II—Continued.

Date.	To whom paid.	On account of.	No.	Amount.
1897				
Jan. 30.	J. S. Hine.....	$\frac{1}{10}$ Sal. Jan. inst., 1897.....	2281	\$85 00
	C. B. Morrey.....	" ".....	2282	85 00
	C. W. Foulk.....	" ".....	2283	80 00
	J. A. Bownocker.....	" ".....	2284	80 00
	B. A. Eisenlohr.....	" ".....	2285	80 00
	H. V. Ames.....	" ".....	2286	80 00
	C. C. Steffel.....	" ".....	2287	80 00
	C. L. Arnold.....	" ".....	2288	80 00
	K. D. Swartzel.....	" ".....	2289	80 00
	C. A. Dye.....	" ".....	2290	80 00
	C. A. Bruce.....	" ".....	2291	75 00
	W. L. Graves.....	" ".....	2292	75 00
	C. W. Burkett.....	" ".....	2293	70 00
	A. W. Hodgman.....	" ".....	2294	70 00
	W. F. Lavery.....	" ".....	2295	70 00
	A. E. Vinson.....	" ".....	2296	60 00
	T. K. Lewis.....	" ".....	2297	60 00
	F. Haas.....	" ".....	2298	60 00
	E. E. Harrold.....	" ".....	2299	60 00
	F. L. Landacre.....	" ".....	2300	60 00
	W. K. Moorehead.....	Salary for Jan., 1897.....	2301	50 00
	H. J. Noyes.....	Part salary.....	2302	150 00
	C. B. Hine.....	Salary for Jan., 1897.....	2303	45 00
	Harriet Townshend.....	$\frac{1}{10}$ Sal. Jan. inst., 1897.....	2304	50 00
	F. E. Kester.....	" ".....	2305	50 00
	W. L. Evans.....	" ".....	2306	40 00
	J. T. Martin.....	" ".....	2307	40 00
	R. M. Hughes.....	" ".....	2308	35 00
	E. F. Coddington.....	" ".....	2309	30 00
	H. M. Biebel.....	" ".....	2310	30 00
	J. R. Spurrier.....	" ".....	2311	30 00
	Maude Jeffrey.....	" ".....	2312	30 00
	E. M. Wilcox.....	" ".....	2313	30 00
	A. C. Harvey.....	" ".....	2314	25 00
	W. R. Beattie.....	Salary for Jan., 1897.....	2315	50 00
	Alexis Cope.....	" ".....	2316	187 50
	W. C. McCracken.....	" ".....	2317	125 00
	G. R. Rose.....	" ".....	2318	65 00
	Chas. Low.....	" ".....	2319	54 17
	Jean Blackford.....	" ".....	2320	50 00
	Edith Cockins.....	" ".....	2321	50 00
	Wm. Whitestine.....	" ".....	2322	45 00
	Wm. Standley.....	" ".....	2323	45 00
	G. A. Flickinger.....	" ".....	2324	20 00
	Benj. Le Bay.....	" ".....	2325	45 00
	James Kelly.....	" ".....	2326	41 67
	F. B. Brewer.....	" ".....	2327	40 00
	John Conrad.....	" ".....	2328	40 00
	J. E. Adams.....	" ".....	2329	40 00
	Wash. Townshend.....	" ".....	2330	30 00
	Edw. Stalter.....	" ".....	2331	20 00
	H. Judd.....	" ".....	2332	20 00
	A. L. Buckman.....	" ".....	2333	20 00
	J. B. Parker.....	" ".....	2334	13 50
	Robt. Fischer.....	$\frac{1}{10}$ Sal. Jan. inst., 1897.....	2335	10 00
	E. T. Watson.....	" ".....	2336	10 00

STATEMENT II—Continued.

Date.	To whom paid.	On account of.	No.	Amount.
1897.				
Jan. 30	F. W. Prentiss.....	Salary for January, 1897.....	2337	33 33
	Gertrude Kellicott.....	Assistance in library Jan., 97..	2338	30 00
	E. Morris.....	5 nights @ \$1.50 watchman "	2339	7 50
	M. Peck.....	2 " " " "	2340	3 00
	J. Paul Jones.....	9 lectures law sch., Jan., 1897...	2341	36 00
	G. W. Knight.....	13 " " " @ \$4....	2342	52 00
	J. A. Thompson.....	Assistance in greenhouse.....	2343	10 00
Feb. 1	D. F. Pugh.....	14 lectures law sch., Jan., 1897..	2344	56 00
2	F. F. D. Alberty.....	7 " " " "	2345	28 00
3	F. M. Senter.....	700 1c., 200 2c. stamps.....	2346	11 00
	".....	2000 stamped envelopes.....	2347	44 32
	Orr, Brown & Price.....	Bay wax.....	2348	1 25
	Elliott & Maclean.....	12 doors.....	2349	6 00
	Shilling Foundry Co.....	Castings, etc.....	2350	59 73
	P. Hayden Foundry.....	Pig iron.....	2351	47 32
	Kelton & Converse.....	Lumber.....	2352	56 45
	Col. Brass Co.....	Castings, etc.....	2353	26 50
	McClelland & Co.....	Stationery.....	2354	3 38
	Tallmadge Hdw. Co.....	Hardware.....	2355	29 95
	H. Cole.....	Blue print paper.....	2356	1 00
	Col. Gas Co.....	50 bu coke.....	2357	4 00
	E. L. Charles.....	Hauling.....	2358	1 75
	Kinkade & Liggett.....	Tees and angles.....	2359	3 00
	Pickering Hdw. Co.....	Circular saws.....	2360	5 25
	Blackwood, Green & Co.....	18 lb galv. iron, etc.....	2361	4 03
	E. A. Kinsey & Co.....	Files, etc.....	2362	30 50
	C. H. Irvin.....	37 hrs. wk. @ 15c.....	2363	5 55
	C. W. High.....	16 " " " "	2364	2 40
	G. C. Fergus.....	13 " " " "	2365	1 95
	W. G. Drummond.....	58 " @ 25c.....	2366	14 50
	C. A. Grate.....	60 " @ 15c.....	2367	9 00
	E. E. Graham.....	20 3/4 " " " "	2368	4 45
	K. Nurian.....	96 " " " "	2369	14 40
	C. Riddle.....	30 " " " "	2370	4 40
	H. Judd.....	6 " @ 25c.....	2371	1 50
	A. N. Cope.....	23 1/2 " @ 15c.....	2372	3 50
	Bissell, Dodge & Erner Co.....	Main blocks.....	2373	1 30
	E. J. McNamara.....	1 doz. crow feet.....	2374	60
	Col. Edison Elect. L'gt Co.....	Insulators, plugs, etc.....	2375	2 52
	J. M. & W. Westwater.....	Canopies, etc.....	2376	2 85
	Stitt, Price & Co.....	4 bags cement.....	2377	2 80
	Tallmadge Hdw. Co.....	Hardware.....	2378	50 62
	A. Earl.....	Lumber.....	2379	7 50
	M. Keith.....	18 hrs. carpenter work. @ 25c..	2380	4 50
	" Jr.....	24 " " " @ 20c..	2381	4 80
	E. H. Barton.....	62 " " " @ 25c..	2382	15 50
	Lee McFarland.....	76 " " " @ 15c..	2383	11 40
	Alva McFarland.....	76 1/2 " " " @ 25c..	2384	19 12
	C. H. Woodruff.....	57 " " " @ 27 1/2 c..	2385	15 83
	Geo. Trowbridge.....	21 " " " @ 25c..	2386	5 25

STATEMENT II—Continued.

Date.	To whom paid.	On account of.	No.	Amount.
1897.				
Feb. 3	J. H. Randall	51½ hrs. carp. work @ 25c.....	2387	\$12 87
	L. M. Hartwick.....	31½ " " 20c.....	2388	6 30
	W. E. Chappell	27 hrs. work @ 12½c.....	2389	3 37
	J. R. Spurrier	50 " " 20c.....	2390	10 00
	Tallmadge Hdw. Co.....	Hardware	2391	53 54
	Kelton & Converse	Lumber	2392	25 38
	Schoedinger, Fearn & Co.....	Keys and blanks.....	2393	2 80
	Siemens & Halske El'c. Co.....	Carbon holders.....	2394	50
	Blackwood, Green & Co.....	1 cook stove, etc.....	2395	15 49
	H. Braun Sons & Co.....	5 gals. oil.....	2396	3 00
	Hanna Paint Co.....	Paints, etc.....	2397	4 75
	Mich. Lubricator Co.....	Lubricators.....	2398	4 00
	E. T. Charles.....	Hauling.....	2399	1 75
	Col. Gas Co.....	Mantels and chimneys	2400	2 10
	Ben D. Potts	Pipe and fittings.....	2401	1 86
	Col. Supply Co.....	"	2402	26 43
	Std. Sch. Furnishing Co.....	Blackboards	2403	39 00
	Patterson Decor. House.....	Paintings, etc.....	2404	23 10
	Mary H. Cope	27 days clerical work @ \$1.50..	2405	40 50
	J. J. Gheen	Work in main building, clean- ing ceilings	2406	36 50
	Walter Chantler.....	5 days @ \$1.50.....	2407	7 50
	Joe Garretson	26 d. @ \$1.50, helper to pl'mb'r	2408	39 00
	A. E. Loeb	88 hrs. work @ 15c.....	2409	13 50
	A. L. Buckman	20 " " 15c.....	2410	3 00
	M. A. Pixley.....	118½ " " 15c.....	2411	17 78
	A. L. Buckman	84 hrs. work.....	2412	14 10
	G. Martin	26½ hrs. work @ 12½c.....	2413	3 31
	F. J. Hall.....	8 " " 15c.....	2414	1 20
	H. S. Riddle.....	23½ " " 15c.....	2415	3 53
	F. L. Estep.....	17 hrs. @ 12½c; 11½ hrs. @ 15c	2416	3 82
	J. H. Randall	113 hrs. carp. work @ 25c.....	2417	30 74
	E. H. Barton	71 " " 25c.....	2418	17 75
	Geo. Trowbridge	92⅔ " " 25c.....	2419	23 24
	Alva McFarland	77 " " 25c.....	2420	19 25
	C. H. Woodruff.....	96 " " 27 7-9c.....	2421	26 66
	G. E. Stechert.....	Books	2422	254 88
	Nitschke Bros.....	Library cards, etc.....	2423	3 25
	Tallmadge Hdw. Co.....	Hardware	2424	3 70
	W. S. Wiggins.....	Ink, etc	2425	95
	Ohio Cycle Co.....	24 doz. chair tips	2426	8 40
	C. M. Wing	Books	2427	100 00
	Henry Seraphim.....	Binding books.....	2428	112 55
	H. Williams.....	Books	2429	19 00
	C. H. Woodruff.....	Amt. due on contract for lib- rary case	2430	26 25
	J. H. Randall.....	6 hrs. carp. work @ 25c.....	2431	1 50
	The Seraphim Bindery..	Book binding.....	2432	13 00
	Taylor-Austin Co.....	Books, per invoices.....	2433	131 05
	W. Conley.....	9 hrs work @ 12½c, as guide...	2434	1 12
	J. C. Perry.....	15½ " " "	2435	1 94
	Wm. Sparhawk.....	26½ " " "	2436	3 31
	W. Gilmore.....	65 " " "	2437	8 12
	Ohio Pipe Co.....	Pipe.....	2438	14 08
	H. Braun Sons & Co.....	Hypo. syringe.....	2439	3 25

STATEMENT II—Continued.

Date.	To whom paid.	On account of.	No.	Amount.
1897.				
Feb. 3	D. S. White	Animals, etc., for dissection...	2440	\$4 40
	O. T. Carson	Advertising in Ed. Monthly...	2441	22 50
	Champlin Ptg. Co	Circulars, cards, etc.....	2442	103 80
	Nitschke Bros.....	Stationery	2443	2 04
	C. O. Paper Co.....	Paper, etc.....	2444	21 02
	A. W. Kiler.....	Chemicals.....	2445	3 85
	D. McAllister.....	500 lbs. oil meal	2446	5 00
	A. H. Smythe.....	1 dozen files	2447	1 50
	Dundon & Bergin	Lumber	2448	2 57
	Jacob Weisheimer.....	Grinding grain.....	2449	12 79
	Shipman, Bradt & Co....	1 milk wagon.....	2450	120 00
	F. R. Griffith	Gasoline stove oil can.....	2451	2 85
	R. Heber & Sons	285 lbs. gas oxygen, etc	2452	6 66
	R. L. Seeds.....	2 tons meal gluten.....	2453	23 00
	C. H. Woodruff	4 hrs. carp. wk. @ 27 7-9c	2454	1 11
	C. S. Baker & Co.....	Tablets alk.....	2455	2 00
	Verm Farm Mach. Co	Dairy supplies.....	2456	16 55
	Wm. Gilmore.....	25 hours work @ 12½c.....	2457	3 12
	J. C. Britton	58 "	2458	7 25
	Oscar Erf	7 days @ \$1.50, etc.....	2459	21 50
	N. F. Pheneger.....	Milk	2460	204 79
	W. B. Calkins	201 hours work @ 15c.....	2461	30 15
	N. P. Oglesby	38 "	2462	5 70
	Hann & Adair	Circulars.....	2463	7 50
	G. E. Stechert.....	Books.....	2464	1 98
	Rochester Optical Co ...	1 rack, etc.....	2465	3 00
	L. E. Barringer	33½ hours work @ 12½c.....	2466	4 17
	W. G. Worcester.....	42 "	2467	5 25
	F. L. Charles	Hauling	2468	1 25
	Frankenberg Bros.....	500 boxes.....	2469	5 00
	Chicago Tip & Tire Co..	Screw tips.....	2470	13 89
	C. O. Oil Co	1 bbl. dynamo oil	2471	11 13
	Tracy Wells Co.....	3 dozen brooms.....	2472	6 75
	McClelland & Co	Stationery ex. office.....	2473	6 15
	D. C. Beggs & Co.....	Shades	2474	32 70
	W. U. Telegraph Co.....	Messages	2475	3 11
	R. M. Seward.....	Services as Quartermaster, '96 fall term.....	2476	5 00
	C. U. Telephone Co.....	Telephone rent, Prest. house..	2477	9 35
	Mineralized Rubber Co.	300 ft. fire hose, etc	2478	100 50
	P. F. Yoerger	Lettering doors and panels.....	2479	7 00
	R. J. Seymour	115 hrs. guide work @ 12½c....	2480	14 37
	W. Conly.....	69 "	2481	8 62
	Alexis Cope	Cash adv. exp. chgs	2482	15 00
	Assoc. Am. Agr. Colleges	Membership in Assoc.....	2483	10 00
	C. O. Paper Co.....	1 case toilet paper.....	2484	6 50
	Am. Dis. Telegraph Co..	Messages.....	2485	5 30
	J. H. Canfield	Expenses to Madison, Wis	2486	28 40
4	New Col. Bridge Co.....	Angles, etc	2487	2 90
	Tallmadge Hdw. Co.....	Hardware	2488	2 45
	Col. Transfer Co.....	Cartage on Acme furnace	2489	6 00
	Col. Supply Co	Pipe and fittings.....	2490	13 66
	Keasbey & Mattison Co.	Magnesia and magnobestos, covering per contract.....	2491	668 26
	Paul Steam System Co..	Changing valve.....	2492	2 50

STATEMENT II—Continued.

Date.	To whom paid.	On account of.	No.	Amount.
1897.				
Feb 4	Blackwood, Green & Co	Galv. iron work.....	2493	\$10 23
	C. H. Woodruff	7½ hrs. carp. wk @ 27 7-9c.....	2494	2 08
	H. M. Biebel	69 hours work @ 15c.....	2495	10 35
	Kelton & Converse.....	Lumber.....	2496	1 20
	H. J. Green.....	20 thermometers.....	2497	30 00
	A. E. Loeb.....	10 hours work @ 15c.....	2498	1 50
	Alva McFarland.....	13½ hours carp. work @ 25c... ..	2499	3 37
	Geo. Trowbridge.....	5½ " " " "	2500	1 37
	J. H. Randall.....	13 " " " "	2501	3 25
	McClelland & Co.....	Stationery	2502	5 82
	C. J. Rumsey & Co.....	12 sheets tin.....	2503	3 60
	Col. Paint Mfg. Co.....	Paint	2504	25
	Kelton & Converse.....	Lumber	2505	72
	The Seraphim Bindery..	36 pieces binders board.....	2506	1 25
	J. G. Biddle.....	2 springs.....	2507	4 09
	The Peoples Store.....	1 office chair	2508	4 00
	Geo. Martin.....	4½ hours @ 12½c.....	2509	56
	F. J. Hale.....	26 " @ 15c.....	2510	3 90
	R. S. West.....	20 " work 12½c.....	2511	2 50
	C. W. Waid.....	80 " " " in library... ..	2512	10 00
	C. K. McClelland & Co..	40 " " " "	2513	5 00
	Lucy Allen.....	22 " " " "	2514	2 75
	C. T. Herbert.....	104 " " " "	2515	13 00
	E. A. Cole & Co.....	Coal	2516	598 44
	Murray City Coal Co....	"	2517	23 88
	Cap. City Mch. Wks.....	Bushing.....	2518	70
	Alva McFarland.....	39 hours carp. work @ 25c.....	2519	14 75
	Elec. Appliance Co.....	Elec. supplies	2520	1 60
	Westinghouse Elec. Co..	Motor.....	2521	190 00
	A. Smith & Sons.....	Labels.....	2522	2 12
	Blackwood, Green & Co	1 can	2523	1 25
3	The Seraphim Bindery..	Book binding	2524	6 90
4	Col. Const. Co.....	Est. No. 4 Biological bldg	2525	589 95
	"	Est. No. 4 Townshend hall ...	2526	716 99
	A. H. Smythe.....	Stationery	2527	11 82
	Tallmadge Hdw. Co.....	Hardware.....	2528	1 74
	Kelton & Converse.....	Lumber	2529	12 81
	Cap. City Mch Wks.....	3 rods	2530	50
	Hine & Robertson Co...	Rods, etc.....	2531	2 50
	Col. Supply Co.....	Pipe and fittings.....	2532	15 89
	Crane Co.....	Valves, etc.....	2533	21 71
	Keasbey & Mattison Co.	Sectional covering	2534	120' 25
	M. P. Street.....	50 feet lumber	2535	50
	Edw. Orton.....	Specimens.....	2536	31 58
	Tallmadge Hdw. Co.....	Hardware.....	2537	60
	Fred Charles.....	Hauling	2538	2 75
	E. H. Barton.....	3½ hours carp. work @ 25c ...	2539	87
	Geo. Trowbridge.....	3½ " " " "	2540	87
	F. S. Johnston.....	127 hrs. wk @ 12½c. clk. agr. dep	2541	15 88
	J. H. Randall.....	6 hours carp. work @ 25c.....	2542	1 50
	Col. Gas Co.....	Gas fixtures.....	2543	2 50
	C. B. Morrey.....	Supplies phisio dept.....	2544	14 73
	McClelland & Co.....	Neostyle paper.....	2545	2 04
	The Mac Millan Co.....	1 book.....	2546	1 00

STATEMENT II—Continued.

Date.	To whom paid.	On account of.	No.	Amount.
1897.				
Feb. 4	Taylor Austin Co.....	Books per invoice	2547	\$3 51
	C. H. Irvin	158 hours janitor work @ 15c.	2548	23 70
	J. L. D. Nichols.....	3 nights @ \$1.50, fireman	2549	4 50
	T. Bowd.....	31 days work @ \$1.50, fireman	2550	46 50
	Marion Peck	28 days and 3 hrs. @ \$1.50 "	2551	42 45
	James Stainbrook.....	31 nights work @ \$1.50 "	2552	46 50
	F. M. Fornof	Final estate, B. & P. H.....	2553	775 00
	Spahr & Glenn	200 schedules of Rec	2554	3 75
	Alva McFarland	9 hrs. carp. work @ 25c	2555	2 25
	O. A. Davis.....	109½ hours work @ 15c	2556	16 38
	Engelke & Bigelow.....	Freight and cartage	2557	36 91
5	G. W. Knight	13 law lectures	2558	52 00
9	F. W. Prentiss, V. Pres.	Draft for copies, G. L. O.....	2559	26 20
	Col. Gas Co	Gas during January, 1897.....	2560	135 98
	H. L. Gerry.....	Ink, mucilage, etc	2561	1 00
	E. B. Kinkead	23 lectures, law sch'ol, Jan. '97..	2562	92 00
10	J. T. Mack	Exp. meeting board, Jan. 13, '97	2563	11 06
11	F. M. Senter, P. M	Dep. for 2d class mail matter..	2564	15 00
5	"	Stamps, 50, 6c; 300, 1c; 500, 2c.; 20, 5c.; 20, 4c.; 20, 3c.....	2565	18 40
19	J. T. Mack	Exp. attending meetings Feb. 12-17, 1897	2566	17 25
24	J. F. Martin	Draft to pay U. S. Ord. Dep. for stores.....	2567	27 18
27	J. H. Canfield.....	Salary for February, 1897	2568	500 00
	T. F. Hunt	1½ salary, February inst., 1897	2569	250 00
	Edward Orton.....	"	2570	225 00
	W. H. Scott	"	2571	225 00
	S. C. Derby	"	2572	225 00
	W. R. Lazenby	"	2573	225 00
	J. R. Smith.....	"	2574	225 00
	H. A. Weber.....	"	2575	225 00
	B. F. Thomas.....	"	2576	225 00
	G. W. Knight.....	"	2577	225 00
	R. D. Bohannon	"	2578	225 00
	D. S. Kellicott.....	"	2579	225 00
	C. N. Brown.....	"	2580	225 00
	E. A. Eggers	"	2581	225 00
	A. M. Bleile	"	2582	225 00
	W. A. Kellerman	"	2583	225 00
	B. L. Bowen	"	2584	225 00
	A. C. Barrows	"	2585	225 00
	J. V. Denney	"	2586	225 00
	W. F. Hunter.....	"	2587	250 00
	J. P. Gordy.....	"	2588	225 00
	W. T. Magruder	"	2589	225 00
	A. L. Williston.....	"	2590	220 00
	N. W. Lord.....	"	2591	200 00
	Geo. B. Kauffman.....	"	2592	200 00
	J. N. Bradford	"	2593	180 00
	F. A. Rav	"	2594	180 00
	Wm. McPherson.....	"	2595	180 00
	Edw. Orton, Jr.	"	2596	180 00
	G. W. McCoard.....	"	2597	160 00

STATEMENT II—Continued.

Date.	To whom paid.	On account of.	No.	Amount.
1897. Feb. 27	H. C. Lord	1-10 salary Feb'y inst., 1897 ...	2598	\$150 00
	F. C. Caldwell.....	" "	2599	140 00
	E. A. Hitchcock.....	" "	2600	140 00
	W. D. Gibbs.....	" "	2601	140 00
	S. A. Norton.....	" "	2602	120 00
	D. S. White	" "	2603	120 00
	R. I. Fulton	" "	2604	120 00
	T. E. French	" "	2605	100 00
	F. C. Clark	" "	2606	100 00
	C. E. Sherman.....	" "	2607	100 00
	Olive P. Jones.....	" "	2608	100 00
	J. E. Boyd.....	" "	2609	100 00
	C. W. Weick.....	" "	2610	90 00
	W. A. Knight.....	" "	2611	90 00
	J. S. Hine	" "	2612	85 00
	C. B. Morrey	" "	2613	85 00
	C. W. Foulk.....	" "	2614	80 00
	J. A. Bownocker.....	" "	2615	80 00
	B. A. Eisenlohr.....	" "	2616	80 00
	H. V. Ames	" "	2617	80 00
	C. C. Steffel.....	" "	2618	80 00
	C. L. Arnold.....	" "	2619	80 00
	K. D. Swartzel.....	" "	2620	80 00
	C. A. Dye.....	" "	2621	80 00
	C. A. Bruce.....	" "	2622	75 00
	W. L. Graves	" "	2623	75 00
	C. W. Burkett.....	" "	2624	70 00
	A. W. Hodgman	" "	2625	70 00
	W. F. Lavery	" "	2626	70 00
	A. E. Vinson	" "	2627	60 00
	T. K. Lewis	" "	2628	60 00
	F. Haas	" "	2629	60 00
	E. E. Harrold.....	" "	2630	60 00
	F. L. Landacre	" "	2631	60 00
	W. K. Moorehead.....	Salary for February, 1897.....	2632	50 00
	H. J. Noyes	% " "	2633	200 00
	C. B. Hine.....	" "	2634	45 00
	H. Towns' end.....	1-10 salary Feb'y inst., 1897 ...	2635	50 00
	F. E. Kester.....	" "	2636	50 00
	W. L. Evans.....	" "	2637	40 00
	J. T. Martin	" "	2638	40 00
	R. M. Hughes	" "	2639	35 00
	E. F. Coddington.....	" "	2640	30 00
	H. M. Biebel	" "	2641	30 00
	J. R. Spurrier	" "	2642	30 00
	Maude Jeffrey	" "	2643	30 00
	Gertrude Kellicott.....	" "	2644	30 00
	E. M. Wilcox.....	" "	2645	30 00
	A. C. Harvey	" "	2646	25 00
	W. R. Beattie.....	Salary for February, 1897	2647	50 00
	Alexis Cope	" "	2648	187 50
	W. C. McCracken	" "	2649	125 00
	G. R. Rose	" "	2650	65 00
	Chas. Low.....	" "	2651	54 17
	Jean Blackford.....	" "	2652	50 00
	Edith Cockins.....	" "	2653	50 00
	Wm. Whitestone.....	" "	2654	45 00

STATEMENT II—Continued.

Date.	To whom paid.	On account of.	No.	Amount.
Feb. 27	Wm. Standley	Salary for February, 1897	2655	\$45 00
	P. Cottingham	" "	2656	45 00
	Benj. LeBay	" "	2657	45 00
	Jas. Kelly	" "	2658	41 67
	F. B. Brewer	" "	2659	40 00
	John Conrad	" "	2660	40 00
	J. E. Adams	" "	2661	40 00
	Wash Townshend	" "	2662	30 00
	Edw. Stalter	" "	2663	20 00
	H. Judd	" "	2664	20 00
	A. L. Buckman	" "	2665	20 00
	J. B. Parker	" "	2666	13 50
	Robt. Fischer	1-10 salary Feb'y inst., 1897....	2667	10 00
	E. T. Watson	" "	2668	10 00
	F. W. Prentiss	Salary for Feb'y, 1897	2669	33 33
26	J. T. Martin	Dft. U. S. Ord. Dept. for stores	2670	25 99
27	G. A. Flickinger	Serv. as janitor, Feb. '97	2671	20 00
	J. A. Thompson	Serv. asst. in green h. Feb. '97	2672	10 00
	Paul Jones	11 lectures, law sch'l, Feb. '97..	2673	44 00
March 1	D. F. Pugh	14 " "	2674	56 00
2	F. F. D. Albery	8 " "	2675	32 00
3	Mary H. Cope	Clerk ass't, Feb'y, 1897.....	2676	40 00
	E. B. Kinkead	29 lectures, law sch'l, Feb. '97..	2677	116 00
4	J. V. Denney	Postage, etc	2678	2 50
	C. E. Barnet	Typewriting	2679	7 00
	Smith & Brumley	6 horses for dissection	2680	11 00
	H. Braun, Son & Co	Museum jar, etc.	2681	2 90
	Col. Supply Co	Fittings	2682	8 30
	Edw. Orton	2 models of tribibites	2683	5 00
	W. J. Davidson	Exp. removal Moore's Coll....	2684	3 50
	Kelton & Converse	Lumber	2685	3 10
	Bruno Hessling	Arch't. forms, etc	2686	15 75
	C. H. Woodruff	4 hours carp. work @ 27 7-9c..	2687	2 36
	Alva McFarland	9 " " 25c	2688	2 25
	W. K. Moorehead	Exp. securing collections	2689	26 00
	Geo. Trowbridge	19 hours carp. work @ 25c.....	2690	4 75
	"	6½ " "	2691	1 62
	Col. Awning & T. Co ..	Mdse., canvas cloths	2692	1 50
	F. S. Johnson	Typewriting	2693	14 10
	C. T. Herbert	92 hours work @ 12½c.....	2694	11 50
	G. E. Stechert	Books	2695	2 28
	Murray City Coal Co....	Lump and blossom coal.....	2696	24 49
	E. A. Cole & Co	Coal	2697	439 60
	Benj. Rushmer	Horse shoeing, etc	2698	17 10
	C. O. Paper Co	Paper	2699	3 45
	Case Mfg. Co	½ yard bolting cloth	2700	60
	A. H. Smythe	½ doz. files, rubber bands.....	2701	1 50
	Col. Hay Co	Merchandise	2702	20 32
	Nitschke Bros	300 T. W. letters	2703	3 00
	Alexis Cope	Cash pd. exp. trustees, per bill ..	2704	6 00
	C. M. Whipple	10 hours work @ 12½c.....	2705	1 25
	W. Conley	17 " "	2706	2 12

STATEMENT II—Continued.

Date.	To whom paid.	On account of.	No.	Amount.
1897. March 4	F. Rubins.....	36½ hrs. work at 12½c	2707	\$4 58
	W. Gilmore	36 "	2708	4 50
	Mitchell Adv. Co.....	Time card 4 mo	2709	1 50
	Am. Dis. Tel. Co.....	Rent 5 signal boxes	2710	15 00
	Standard Oil Co.....	Oil, etc.....	2711	8 69
	Col. Rub. & Beltg. Co..	Hose, etc.....	2712	23 25
	J. M. & W. Westwater...	1 lantern and wick.....	2713	85
	Sherwood Mfg. Co.....	4 Niagara tube cleaners.....	2714	30 00
	Am. Dist. Teleg. Co.	Messenger service	2715	1 20
	Alexis Cope	Cash adv. express charges	2716	30 00
	Frankenberg Bros.....	50 mailing tubes.....	2717	50
	I. H. Miller.....	Affidavits.....	2718	3 65
	R. J. Seymour	128 hrs. wk. at 12½c. as guide ..	2719	16 00
	W. Chantler	4 days at \$1.50.....	2720	6 00
	W. Conley.....	102 hrs. at 12½c. as guide.....	2721	12 75
	M. Peck	28 days at \$1.50.....	2722	42 00
	C. H. Irwin.....	74 hrs. at 15c	2723	11 10
	C. W. Waid.....	120 hrs. at 12½c	2724	15 00
	Thos. Bowde	28 days at \$1.50	2725	42 00
	Cap. City Mch. Wks.....	Castings, etc	2726	76 63
	Engelke & Bigelow.....	Freight and cartage.....	2727	20 49
	Gd. R. Sch. Furn Co.....	Bal. on account.....	2728	100 00
	E. J. McNamara	Opalescent disks, etc	2729	118 78
	Col. Supply Co	Fittings	2730	54
	A. G. Fritchey.....	Sapoliu, etc	2731	3 00
	N. F. Pheneger.....	Milk dairy laboratory.....	2732	207 80
	Tallmadge Hdw. Co	Hardware	2733	2 13
	H. Braun Sons & Co.....	2 oz. dry peptone.....	2734	68
	Hann & Adair.....	500 envelopes	2735	1 85
	Richards & Co. Ltd.....	Drugs and chemicals	2736	6 90
	Kelton & Converse	Lumber	2737	25 51
	P. Hayden Hdw. Co.....	4,450 pounds coke	2738	10 75
	Pickering Hdw. Co	Hardware	2739	5 43
	Blackwood, Green & Co	132 pounds lead lining, etc.....	2740	23 68
	L. A. Eby	24 hrs. work at 25c	2741	6 00
	W. G. Drummonds	16½ hrs. at 25c.....	2742	4 12
	K. Nurian.....	53½ hrs. at 15c.....	2743	8 00
5	Col. Paint Mfg. Co.....	Paint.....	2744	50
	Bissell, D. & Erner Co ..	Magnet-wire	2745	3 93
	Schoeding'r, Fearn & Co	Brass screws	2746	20
	Clev. Armature Wks.....	1 can paste, etc	2747	1 25
	C. O. Paper Co	Paper	2748	9 50
	Nitschke Bros.....	Folders and cards	2749	12 25
	Champlin Ptg. Co	Records, cards, circulars.....	2750	62 65
	Webb Sta. & Ptg. Co.....	Treas. order books, etc.....	2751	22 25
	Col. Dispatch.....	Advertising	2752	2 70
	O. S. Journal Co.....	"	2753	2 70
	D. W. Smith.....	4 hrs. at 12½c	2754	50
	H. S. King	59½ hrs. work at 12½c.....	2755	7 44
	C. M. Sprague	59 "	2756	7 69
	McAllister, Mohler & Co	Desk and chair	2757	31 00
	J. S. Abbott & Co.....	Glass	2758	31 00
	Geo Trowbridge	15½ hrs. carp. work at 25c	2759	3 87
	C. I. Philips.....	Papering	2760	50 00

STATEMENT II—Continued.

Date.	To whom paid.	On account of.	No.	Amount.
1897. March 5	Blackwood, Green & Co	Copper.....	2761	\$44 00
	Rochester Opt. Co	Photo. supplcs.....	2762	22 20
	Col. Supply Co	Fittings.....	2763	9 00
	Green, Joyce & Co.....	6 doz. towels	2764	7 50
	E. Griener	Glass tubing, beakers, etc.....	2765	35 04
	N. P. Oglesby	38 hrs. @ 15c.....	2766	5 70
	Corning & Co.....	3 bbl alcohol.....	2767	69 65
	W. B. Calkins.....	90 hrs. @ 15c	2768	13 50
	Tracy Wells Co.....	Labels	2769	4 20
	Kauffman-Latimer Co...	Chemicals and drugs.....	2770	359 64
	Jeffrey Mfg. Co	Bal. due boiler house mch.....	2771	174 02
	S. T. Knight.....	Est. 1 sewer, Town. Hall.....	2772	439 08
	H. S. King	4 hrs. @ 12½c.....	2773	50
	C. M. Sprague.....	4 " "	2774	50
	T. T. Tress.....	Work on timer	2775	3 00
	Cap. City Mch. Wks	Castings	2776	2 60
	Blackwood, Green & Co	Tin cups, labor, etc.....	2777	3 75
	Bissell, Dodge & E. Co..	Elec. supplies	2778	18 62
	Tallmadge Hdw. Co.....	Hardware	2779	3 64
	Geo. Trobridge.....	12 hrs. carp. wk. @ 25c.....	2780	3 00
	Alva McFarland	13½ " " " "	2781	3 37
	J. H. Randall	16½ " " " "	2782	4 12
	Am. Express Co	Exp. chgs. on books imported	2783	14 81
	T. H. Castor & Co.....	Books.....	2784	9 21
	B. F. Thomas	Vol. 1 to 20, Elec. Eng.....	2785	25 00
	Taylor-Austin Co.....	Books, per invoice.....	2786	163 02
	G. E. Stechert.....	" "	2787	654 63
	Tallmadge Hdw. Co.....	Hardware	2788	13 87
	Stitt, Price & Co.....	Cement.....	2789	5 25
	P. Hayden, S. Hdw. Co.	Grate bars.....	2790	10 80
	Neski & Huffman.....	Plumbing	2791	17 74
	Col. Supply Co	Fittings.....	2792	29 13
	B. D. Potts	"	2793	2 20
	Burgess Sold. Furn. Co.	Repairing furnace	2794	75
	Std. Sch. Furn. Co.....	5 gal. liquid slating, etc.....	2795	25 50
	Col. Brass Co	Repairs, Hayes Hall.....	2796	75
	Jeffrey Mfg. Co.....	Repairs	2797	3 88
	Col. Gas Co.....	Repairing lamp	2798	3 00
	Bissell Dodge & E. Co..	Tubes, wire, etc	2799	54 72
	H. P. Ball Mfg. Co.....	15 switches.....	2800	1 62
	E. J. McNamara	10 canopies, etc.....	2801	7 50
	Schoedinger, Fearn & Co	Screws, etc.....	2802	4 13
	Hann & Adair.....	1,000 cards, etc	2803	4 65
	Sawyer-man, Elec. Co...	Bal. due elec. supplies	2804	40 00
	Blackwood, Green & Co	Oil pump, castings, etc	2805	6 52
	A. Earl.....	Lumber.....	2806	14 18
	J. H. Randall.....	24 hrs. carp. wk. @ 25c.....	2807	6 00
	Alva McFarland.....	26 " "	2808	6 50
	Geo. Trobridge.....	37½ " "	2809	9 37
	C. H. Woodruff.....	" "	2810	24 47
	Alva McFarland	19 " "	2811	4 75
	J. H. Randall	31½ " "	2812	7 87

STATEMENT II—Continued.

Date.	To whom paid.	On account of.	No.	Amount.
1897.				
Mar. 5	E. H. Barton	34 hrs. carp. work @ 25c.....	2813	\$8 50
	C. H. Woodruff	33 " " 27 7-9c...	2814	8 94
	W. E. Chappell.....	23 hrs. work @ 12½c.....	2815	2 98
	O. A. Davis	31½ " " 15c.....	2816	4 73
	F. L. Estep.....	45 3-9 hrs. @ 12½c; 12 hrs. @ 15c	2817	7 51
	A. E. Loeb	27 hrs. @ 15c.....	2818	4 05
	A. E. Peters	39 " " 12½c.....	2819	4 87
	Nichol & Carr.....	Est. No. 5, Chapel	2820	394 50
8	F. M. Senter, P. M.....	Stamps—500 2c; 200 1c	2821	12 00
	A. L. Williston	1-10 sal Mch. inst., 1897	2822	220 00
	G. W. Knight.....	15 lectures, law school, Feb., 1897.....	2823	60 00
10	W. I. Chamberlain.....	Exp. attending meeting this day	2824	14 65
	J. T. Mack	Expenses attending meeting this day.....	2825	10 20
	Peters, Burns & Petzing'r	Services as architect, Towns Hall	2826	600 00
	T. J. Godfrey	Exp. meet'gs Feb. 17 to Mar. 10, 1897.....	2827	18 30
12	Alfred Humphreys.....	Moore's collection of fossils...	2828	100 00
	Nichol & Carr.....	Extra ptg. and plaster. chapel.	2829	42 00
13	Jas. Stainbrook.....	28 days work @ \$1.50.....	2830	42 00
	Joe Garretson.....	24 " " "	2831	36 00
	J. J. Gheen	Plastering and kalsomining...	2832	20 15
	Tallmadge Hdw. Co.....	Hardware	2833	2 20
	Z. L. White & Co.....	Sheeting, etc.....	2834	2 80
	Tinnus, Olsen & Co.....	Testing machines.....	2835	1,695 00
	F. O. Schoedinger.....	Galv. iron tank.....	2836	4 70
	Col. Supply Co.....	Fittings.....	2837	6 30
	Cap. City Machine Wks.	Castings, etc.....	2838	53 11
16	D. M. Massie	Exp. as trustees, Feb. 1 to date	2839	33 15
19	Col. Gas Co.....	Gas during Feb., 1897	2840	135 38
	H. J. Noyes.....	Bal. due on salary.....	2841	150 00
22	A. Rosenagle.....	1 type writer ribbon	2842	1 00
27	J. H. Canfield.....	Salary for March, 1897	2843	500 00
	T. F. Hunt	1-10 sal. March, 1897.....	2844	250 00
	Edw. Orton.....	" " "	2845	225 00
	W. H. Scott.....	" " "	2846	225 00
	S. C. Derby	" " "	2847	225 00
	W. R. Lazenby.....	" " "	2848	225 00
	J. R. Smith.....	" " "	2849	225 00
	H. A. Weber.....	" " "	2850	225 00
	B. F. Thomas.....	" " "	2851	225 00
	G. W. Knight.....	" " "	2852	225 00
	R. D. Bohannon	" " "	2853	225 00
	D. S. Kellicott.....	" " "	2854	225 00
	C. N. Brown.....	" " "	2855	225 00
	E. A. Eggers.....	" " "	2856	225 00
	A. M. Belle.....	" " "	2857	225 00
	W. A. Kellerman	" " "	2858	225 00
	B. L. Bowen.....	" " "	2859	225 00
	A. C. Barrows.....	" " "	2860	225 00
	J. V. Denny.....	" " "	2861	225 00
	W. F. Hunter.....	" " "	2862	250 00

STATEMENT II—Continued.

Date.	To whom paid.	On account of.	No.	Amount.
1897.	J. P. Gordy.....	1-10 Salary March inst., 1897	2863	\$225 00
Mar. 27	W. T. Magruder.....	" "	2864	225 00
	W. L. Graves.....	" "	2865	75 00
	N. W. Lord.....	" "	2866	200 00
	G. B. Kauffman.....	" "	2867	200 00
	J. N. Bradford.....	" "	2868	180 00
	F. A. Ray.....	" "	2869	180 00
	Wm. McPherson.....	" "	2870	180 00
	Edw. Orton, Jr.....	" "	2871	180 00
	G. W. McCoard.....	" "	2872	160 00
	H. C. Lord.....	" "	2873	150 00
	F. C. Caldwell.....	" "	2874	140 00
	E. A. Hitchcock.....	" "	2875	140 00
	W. D. Gibbs.....	" "	2876	140 00
	S. A. Norton.....	" "	2877	120 00
	D. S. White.....	" "	2878	120 00
	R. I. Fulton.....	" "	2879	120 00
	T. E. French.....	" "	2880	100 00
	F. C. Clark.....	" "	2881	100 00
	C. E. Sherman.....	" "	2882	100 00
	Olive P. Jones.....	" "	2883	100 00
	J. E. Boyd.....	" "	2884	100 00
	C. W. Weick.....	" "	2885	90 00
	W. A. Knight.....	" "	2886	90 00
	J. S. Hine.....	" "	2887	85 00
	C. B. Morrey.....	" "	2888	85 00
	C. W. Foulk.....	" "	2889	80 00
	J. A. Bownocker.....	" "	2890	80 00
	B. A. Eisenlohr.....	" "	2891	80 00
	H. V. Ames.....	" "	2892	80 00
	C. C. Sleffel.....	" "	2893	80 00
	C. L. Arnold.....	" "	2894	80 00
	K. D. Swartzel.....	" "	2895	80 00
	C. A. Dye.....	" "	2896	80 00
	C. A. Bruce.....	" "	2897	75 00
	C. W. Burkett.....	" "	2898	70 00
	A. W. Hodgman.....	" "	2899	70 00
	W. F. Lavery.....	" "	2900	70 00
	A. E. Vinson.....	" "	2901	60 00
	T. K. Lewis.....	" "	2902	60 00
	F. Haas.....	" "	2903	60 00
	E. E. Harrold.....	" "	2904	60 00
	F. L. Landacre.....	" "	2905	60 00
	W. K. Moorehead.....	Salary for March, 1897.....	2906	50 00
	C. B. Hine.....	" "	2907	45 00
	Harriet Townshend.....	1-10 salary March inst., 1897	2908	50 00
	F. E. Kester.....	" "	2909	50 00
	W. L. Evans.....	" "	2910	40 00
	J. T. Martin.....	" "	2911	40 00
	R. M. Hughes.....	" "	2912	35 00
	E. F. Coddington.....	" "	2913	30 00
	H. M. Biebel.....	" "	2914	30 00
	J. R. Spurrier.....	" "	2915	30 00
	Maude Jeffrey.....	" "	2916	30 00
	A. C. Harvey.....	" "	2917	25 00

STATEMENT II—Continued.

Date.	To whom paid.	Account of.	No.	Amount.
1897.				
Mar. 27	W. R. Beattie.....	Salary for March 1897.....	2918	\$50 00
	Alexis Cope	" "	2919	187 50
	W. C. McCracken.....	" "	2920	125 00
	G. R. Rose	" "	2921	65 00
	Chas. Low.....	" "	2922	54 17
	Jean Blackford	" "	2923	50 00
	Edith Cockins.....	" "	2924	50 00
	Wm. Whitestone.....	" "	2925	45 00
	Wm. Standley.....	" "	2926	45 00
	P. Cottingham.....	" "	2927	45 00
	Benj. LeBay	" "	2928	45 00
	Jas. Kelley.....	" "	2929	41 67
	F. B. Brewer.....	" "	2930	40 00
	John Conrad.....	" "	2931	40 00
	John E. Adams	" "	2932	40 00
	Wash. Townshend	" "	2933	30 00
	Edw. Stalter.....	" "	2934	20 00
	H. Judd	" "	2935	20 00
	A. L. Buckman	" "	2936	20 00
	I. B. Parker.....	" "	2937	13 50
	Robt. Fischer.....	" "	2938	10 00
	E. T. Watson.....	" "	2939	10 00
	F. W. Prentiss.....	" "	2940	33 33
26	F. M. Senter, P. M.....	500 2c., 200 1c., 20 5c. stamps...	2941	13 00
27	G. A. Flickinger.....	Janitor work, March, 1897.....	2942	20 00
	J. A. Thompson	Ass't in green house, Mar. '97	2943	10 00
	Gertrude Kellicott.....	Assistance in library.....	2944	30 00
	Paul Jones	12 lectures law school, Mar. '97	2945	48 00
	E. M. Wilcox	10 salary March inst. 1897.....	2946	30 00
April 1	D. F. Pugh	18 lectures law school, Mar. '97	2947	72 00
2	F. M. Senter, P. M.....	200 1c. stamps.....	2948	2 00
3	F. F. D. Albery	9 lectures, law school	2949	36 00
5	E. B. Kinkead	37 " "	2950	148 00
7	Mary H. Cope	27 days work @ \$1.50	2951	40 50
	W. I. Chamberlain.....	Expenses at meeting this day	2952	12 50
8	L. M. Bloomfield.....	50 2c. stamps, 100 postal cards	2953	2 00
	Wm. Annat.....	45½ yards sheeting.....	2954	3 07
	H. J. Baker & Bro.....	Cartage on phosphate powder	2955	75
	S. L. Freeman	10 yds. tracing cloth @ 25c	2956	2 50
	Hall, Carlile & Bingham	1 bbl. plaster.....	2957	2 50
	F. S. Johnston	100½ hours work @ 12½c.....	2958	12 56
	Smith & Brumley.....	Horses for vet. laboratory.....	2959	5 00
	H. Braun, Sons & Co.....	Drugs, instruments, etc.....	2960	18 59
	C. T. Herbert.....	64 hours work @ 12½c	2961	8 00
	M. Keith, Jr	13½ hours carp. wk. @ 22½c.....	2962	3 06
	C. H. Woodruff	5 " " 27½c.....	2963	1 39
	Paul Steam System Co..	Contract for heating.....	2964	1,175 00
	S. T. Knight.....	Final est. sewer boiler house..	2965	75 00
	Taylor-Austin Co	Books.....	2966	8 60

STATEMENT II—Continued.

Date.	To whom paid.	On account of.	No.	Amount.
1897.				
Apr. 8	E. L. Fuhner	27 hours work @ 15c.....	2967	4 05
	Freda Detmere.....	18 " " 20c.....	2968	3 60
	Cambridge Bot. Sup. Co.	Biblio. of Am. Bot.....	2969	5 00
	C. E. Cummings.....	North Am. Lichens.....	2970	3 12
	W. G. Drummond.....	92 hours work @ 25c.....	2971	23 00
	A. N. Cope.....	32 " " 15c.....	2972	3 30
	L. A. Eby.....	91 " " 25c.....	2973	22 75
	M. Peck.....	31 days @ \$1.50.....	2974	46 50
	Joe Garretson.....	26 " "	2975	39 00
	Thos. Bowd.....	31 " "	2976	46 50
	J. A. Thompson.....	44 hours @ 12½c.....	2977	5 50
	C. W. Waid.....	130 " "	2978	16 25
	R. S. West.....	22 " "	2979	4 25
	Jas. Stainbrook.....	31 days @ \$1.50.....	2980	46 50
	Queen & Co.....	Instruments, etc.....	2981	51 50
	W. Pickhardt & Kutroff	1 lb. orange acid.....	2982	50
	S. T. Knight.....	Sewer final est. boiler bldgs..	2983	115 15
	Col. Rubber & Belting Co.	Pipe, etc.....	2984	4 06
	Press, Post, Ptg. Co.	Advertising.....	2985	2 50
	Champlin Ptg. Co.....	Report cards, etc.....	2986	47 50
	C. O. Paper Co.....	Exam. paper.....	2987	19 00
	The Lantern.....	Advertising.....	2988	50 00
	O. J. Corson.....	"	2989	22 50
	Champlin Ptg. Co.....	1000 letter heads.....	2990	4 50
	Murray City Coal Co.....	Coal	2991	16 15
	E. A. Cole & Co.....	"	2992	431 74
	Schoedinger, Fearn & Co.	Hardware.....	2993	2 35
	Library Bureau.....	10 sheets alphabets, etc.....	2994	2 21
	Cap. City Mch. Wks.....	1 Reeves pulley.....	2995	1 08
	Am. Steel Casting Co....	2 castings.....	2996	7 65
	Bissell, Dodge & Erner Co.	Magnet-wire.....	2997	1 10
	Jones & Laughlin.....	1 pulley.....	2998	1 65
	Std. Und'rgr'd Cable Co.	Magnet-wire.....	2999	10 78
	C. O. Paper Co.....	Paper	3000	5 91
	T. J. Godfrey.....	Ex.attg. board meet'g Apr. 7-8-97	3001	10 60
	M. Jennings.....	Lect'r before newspaper class.	3002	5 00
	Col. Const. Co.....	Est. No. 5 town hall.....	3003	2921, 20
	J. G. Biddle.....	Bradleys' Pseudoptics.....	3004	5 00
	Bausch, Lomb, Opt. Co.	Opt. instruments.....	3005	21 70
	C. O. Paper Co.....	1 ledger.....	3006	1 80
	A. W. Livingstons Sons	4 bu. clover seed @ \$5.50.....	3007	22 00
	Kilbourne Jacobs Mfg. Co.	1 pr. plow handles.....	3008	1 00
	Cap. City Mch. Co.....	brass tubes, etc.....	3009	16 95
	H. A. Blakeslee.....	5000 acme milk tickets.....	3010	10 00
	Blackwood, Green & Co.	Hardware	3011	9 70
	G. D. Cross Lumber Co.	Lumber	3012	4 89
	R. L. Seeds.....	Gluten meal.....	3013	16 39
	J. W. Mills.....	Lantern slides.....	3014	13 00
	Col. Const. Co.....	Est. No. 5 biolog bldg.....	3015	460 13
	Am. Ac'dy P. S. Science.	Books.....	3016	27 50
	G. E. Stechert.....	"	3017	67 50
	Taylor, Austin Co.....	"	3018	34 70
	"	"	3019	57 06

STATEMENT II—Continued.

Date.	To whom paid.	On account of.	No.	Amount.
1897.				
April 8	C. E. Barnet.....	Typewriting, etc.....	3020	\$1 35
	Nitschke Bros.....	3000 slips.....	3021	1 50
	Talmadge Hdw Co.....	Hardware.....	3022	1 20
	Kilbourne, Jones Co ..	Rop.....	3023	1 22
	Col. Supply Co.....	Fittings.....	3024	4 60
	Bausch, Lomb Opt. Co..	Microscopes.....	3025	98 70
	Talmadge Hdw. Co.....	Hardware.....	3026	2 95
	D. S. Kellicott.....	Animals for dissection.....	3027	7 40
	Kuy, Scheerer Co.....	Klaeger pins.....	3028	7 50
	H. H. & C. S. Brimley..	Embryos of mice.....	3029	1 00
	Wellington Box Co.....	Boxes.....	3030	5 49
	Hann & Adair.....	Score cards.....	3031	6 85
	Col. Mch. Supply Co....	1 wood pulley.....	3032	3 18
	O. Erf.....	Work in dairy lab.....	3033	13 50
	N. F. Pheneger.....	Milk for dairy lab.....	3034	81 24
	Cap. City Mch. Wks.....	Pulleys, belting, etc.....	3035	16 29
	Lynas Bros.....	19 pounds cheese for testing..	3036	2 09
	Creamery Pkg. Co.....	8 milk cans.....	3037	11 70
	Crystal Ice Mfg. Co.....	Ice.....	3038	6 19
	The Talmadge Hdw. Co..	Hardware.....	3039	95
	Tracy, Wells Co.....	Butter tubs.....	3040	11 50
	H. Haerlein.....	Serv. as landscape gardner.....	3041	90 00
	J. C. Britton.....	19 hours work @ 12½c.....	3042	2 38
	W. Gilmore.....	38 hours work @ 12½c.....	3043	4 75
	A. W. Livingstons Sons	Grass seeds.....	3044	13 50
	J. S. Parsons.....	30 hours work @ 12½c.....	3045	3 75
	H. B. Goddard.....	8½ hours work @ 12½c.....	3046	1 07
	H. Chantler.....	34 hours work @ 12½c.....	3047	4 25
	W. Chantler.....	32 hours work @ 12½c.....	3048	4 00
	C. M. Whipple.....	9 hours work @ 12½c.....	3049	1 12
	C. U. Telephone Co.....	Telephone service.....	3050	56 95
	W. U. Telegraph Co.....	Telegrams.....	3051	4 09
	Alexis Cope.....	Express charges.....	3052	36 20
	McClelland & Co.....	Stationery.....	3053	4 41
	Tracy Wells Co.....	Brooms, dusters, etc.....	3054	11 83
	Col. Sup. Co.....	Metal polish, etc.....	3055	2 43
	Standard Oil Co.....	Oil for engine and pump.....	3056	22 26
	Leonard & Ellis.....	Oil for engine and pumps.....	3057	28 05
	J. T. Martin.....	Cash paid for paint and brush	3058	1 15
	R. J. Seymour.....	166 hours work @ 12½c.....	3059	20 75
	C. R. Irvin.....	54 hours work @ 15c.....	3060	8 10
	G. A. Flickinger.....	4 days extra janitor work.....	3061	6 00
	W. Conly.....	124 days guide work, etc.....	3062	20 25
	I. H. Miller.....	Affidavits.....	3063	2 00
	A. G. Fritchey.....	5 gallons gasoline.....	3064	63
	Engelke & Bigelow.....	Freight and cartage.....	3065	45 77
	Bissell, Dodge & E. Co..	180 feet B. A. conduit.....	3066	4 68
	Joe Richardson.....	4 days @ \$1.50.....	3067	6 00
	Chas. Tyler.....	6 days @ \$1.50.....	3068	9 00
	Chas. Pixler.....	14 days @ \$1.50.....	3069	21 00
	Arthur Chantler.....	23 days @ \$1.50.....	3070	34 50
	F. J. Hale.....	21 days work @ 15c.....	3071	3 15
	Col. Rubber & Belt'g Co.	Pipe.....	3072	1,530 00
	H. P. Ball Mfg. Co.....	Switches, etc.....	3073	5 19
	H. S. Riddle.....	13 hours work @ \$1.50.....	3074	1 95
	A. E. Loeb.....	21 hours work @ 12½c.....	3075	3 15
	O. A. Davis.....	46½ hours work @ 15c.....	3076	6 97

STATEMENT II—Continued.

Date.	To whom paid.	On account of.	No.	Amount.
1897.				
Apr. 8	F. L. Estep.....	20½ hrs. wk., @ 12½ and 15c ...	3077	\$2 76
9	Tallmadge Hardw. Co....	Hardware	3078	8 52
	Columbus Brass Co.....	Syphons, etc	3079	6 50
	Buckeye Leather Co....	Washers	3080	35
	Murphy-Iron Works....	Grates	3081	165 18
	Cap. City Mch. Works...	Valves, hinges, etc.....	3082	21 85
	Water Dept	Valves, etc	3083	10 58
	Kelton and Converse ...	Lumber	3084	5 41
	S. T. Knight.....	Final est., sewer to res.....	3085	35 00
	C. H. Woodruff.....	Carp. work.....	3086	33 57
	W. E. Chappell	3½ hrs. wk. @ 12½c.....	3087	44
	A. L. Buckman	3½ hrs. @ 15c	3088	5 40
	Columbus Supply Co ...	Fittings.....	3089	21 46
	Columbus Cons. Co.....	8 hrs. testing trenches, Towns Hall	3090	1 20
	Standard Paving Co....	2 loads cinders	3091	2 00
	S. T. Knight	Contract for drainage, Towns Hall	3092	211 38
	Cap. City Mch. Works...	Iron, etc.....	3093	12 04
	S. T. Knight	Rebuilding arch, Towns. Hall Tunnel.....	3094	204 75
	S. T. Knight.....	15 days hauling, @ \$2.50.....	3095	37 50
	Columbus St. Ry. Co....	Cinders.....	3096	11 10
	F. Rubins.....	17 hrs. wk. @ 12½c.....	3097	2 12
	W. Chantler.....	28 " "	3098	3 50
	Walter Gilmore ..	14 " "	3099	1 75
	H. Chantler.....	28 " "	3100	3 50
	N. P. Oglesby	39 " 15c	3101	5 85
	W. B. Calkins.....	95 " "	3102	14 25
	Tracy-Wells Co.....	7 doz. labels, @ 60c	3103	4 20
	Kimball & Mathews	Lantern plates, etc.....	3104	2 50
	Bausch-Lomb Opt. Co..	Labels.....	3105	42
	Rochester Opt. Co.....	1 petite tripod.....	3106	4 00
	Chic. Lab. Sup. & S. Co.	Burners, clamps, etc	3107	18 79
	Blackwood, Green & Co.	Galv. iron work.....	3108	15 95
	Kauffman-Lattimer Co..	Drugs and chemicals.....	3109	347 72
	G. E. Stechert.....	Books.....	3110	127 59
	Taylor-Austin Co	"	3111	254 97
	Am. Inst. Elect. Eng....	1 book	3212	5 00
	R. R. Bowker.....	"	3113	3 50
	H. L. Fairchild, Secy ...	"	3114	5 00
	J. L. Tranger	Book binding.....	3115	75
	P. Smythe.....	Framing picture.....	3116	1 40
	West Publishing Co	Books	3117	69 75
	A. H. Smythe.....	Letter basket, etc.....	3118	1 30
	Nitschke Bros.....	Letter sheets, cards, etc.	3119	9 75
	Krauss, Butler & Ben- ham Co	Window shades.....	3120	30 69
9	Am. Soc. Mech. Eng....	Binding Vol. XVII.....	3121	1 25
	Library Bureau.....	Acc. book, cards, etc.....	3122	33 50
	N. L. Britton.....	Memoirs Vol. I-V.....	3123	7 50
	A. D. Harward.....	16 hrs. @ 15c	3124	2 40
	Columbus Gas Co.....	Gas during March, 1897	3125	146 63
	E. O. Randall.....	37 lectures law school.....	3126	148 00
	Columbus Const. Co	Material for Towns Hall.....	3127	613 13
10	W. H. Page	60 lectures law school	3128	240 00
17	G. W. Knight	17 " "	3129	68 00

STATEMENT II—Continued.

Date.	To whom paid.	On account of.	No.	Amount.
1897.				
April 12	West. Elec. & Mfg. Co...	One 15 H. P. motor.....	3130	\$150 00
17	F. M. Senter.....	1,000 1c postage stamps	3131	10 00
24	J. H. Canfield.....	Salary for April, 1897.....	3132	500 00
	T. F. Hunt.....	1-10 salary April inst. 1897.....	3133	250 00
	Edward Orton.....	" ".....	3134	225 00
	W. H. Scott.....	" ".....	3135	225 00
	S. C. Derby.....	" ".....	3136	225 00
	W. R. Lazenby	" ".....	3137	225 00
	J. R. Smith.....	" ".....	3138	225 00
	H. A. Weber.....	" ".....	3139	225 00
	B. F. Thomas.....	" ".....	3140	225 00
	G. W. Knight.....	" ".....	3141	225 00
	R. D. Bohannon.....	" ".....	3142	225 00
	D. S. Kellicott	" ".....	3143	225 00
	C. N. Brown.....	" ".....	3144	225 00
	E. A. Eggers.....	" ".....	3145	225 00
	A. M. Bleile.....	" ".....	3146	225 00
	W. A. Kellerman	" ".....	3147	225 00
	B. L. Bowen.....	" ".....	3148	225 00
	A. C. Barrows.....	" ".....	3149	225 00
	J. V. Denney	" ".....	3150	225 00
	W. F. Hunter.....	" ".....	3151	250 00
	J. P. Gordy.....	" ".....	3152	225 00
	W. T. Magruder	" ".....	3153	225 00
	A. L. Williston	" ".....	3154	220 00
	N. W. Lord.....	" ".....	3155	200 00
	G. B. Kauffman.....	" ".....	3156	200 00
	J. N. Bradford.....	" ".....	3157	180 00
	F. A. Ray.....	" ".....	3158	180 00
	Wm. McPherson.....	" ".....	3159	180 00
	F. Orton, Jr.....	" ".....	3160	180 00
	G. W. McCoard.....	" ".....	3161	160 00
	H. C. Lord.....	" ".....	3162	150 00
	F. C. Caldwell.....	" ".....	3163	140 00
	E. A. Hitchcock	" ".....	3164	140 00
	W. D. Gibbs.....	" ".....	3165	140 00
	S. A. Norton	" ".....	3166	120 00
	D. S. White.....	" ".....	3167	120 00
	R. I. Fulton	" ".....	3168	120 00
	Columbus Cons. Co.....	Est. No. 6 Townsend Hall	3169	727 50
	T. E. French.....	1-10 salary April inst. 1897.....	3170	100 00
	F. C. Clark.....	" ".....	3171	100 00
	C. E. Sherman.....	" ".....	3172	100 00
	O. B. Jones.....	" ".....	3173	100 00
	J. E. Boyd.....	" ".....	3174	100 00
	C. W. Weick	" ".....	3175	90 00
	W. A. Knight.....	" ".....	3176	90 00
	J. S. Hine.....	" ".....	3177	85 00
	C. B. Morrey.....	" ".....	3178	85 00
	C. W. Foulk.....	" ".....	3179	80 00
	J. A. Bownocker	" ".....	3180	80 00
	B. A. Eisenlohr	" ".....	3181	80 00
	H. V. Ames.....	" ".....	3182	80 00
	C. C. Steffel	" ".....	3183	80 00
	C. L. Arnold.....	" ".....	3184	80 00
	K. D. Swartzel.....	" ".....	3185	80 00

STATEMENT II.—Continued.

Date.	To whom paid.	On account of.	No.	Amount.
1897.				
April 24	C. A. Dye	1-10 salary, April, inst., 1897...	3186	\$80 00
	C. A. Bruce	" "	3187	75 00
	W. L. Evans	" "	3188	75 00
	C. W. Burkett	" "	3189	70 00
	A. W. Hodgman	" "	3190	70 00
	W. F. Lavery	" "	3191	70 00
	A. E. Vinson	" "	3192	60 00
	T. K. Lewis	" "	3193	60 00
	Frank Haas	" "	3194	60 00
	E. E. Harrold	" "	3195	60 00
	F. L. Landacre	" "	3196	60 00
	W. K. Moorehead	" "	3197	50 00
	C. P. Hine	" "	3198	45 00
	Harriet Townshend	" "	3199	50 00
	F. E. Kester	" "	3200	50 00
	W. L. Evans	" "	3201	40 00
	J. T. Martin	" "	3202	40 00
	R. M. Hughes	" "	3203	35 00
	E. F. Coddington	" "	3204	30 00
	H. M. Biebel	" "	3205	30 00
	J. R. Spurrier	" "	3206	30 00
	Maude Jeffrey	" "	3207	30 00
	Gertrude Kellicott	" "	3208	30 00
	A. C. Harvey	" "	3209	25 00
	W. A. Beattie	Salary for April, 1897	3210	50 00
	Alex. Cope	" "	3211	187 50
	W. C. McCracken	" "	3212	125 00
	G. R. Rose	" "	3213	65 00
22	F. W. Prentiss Cas	F. B. to order C. A. Kaulbaum	3214	17 82
	"	" Theo. Schuhardt	3215	4 49
24	Chas. Low	Salary for April, 1897	3216	54 17
	Jean Blackford	" "	3217	50 00
	Edith Cockins	" "	3218	50 00
	Wm. Whitestone	" "	3219	45 00
	Wm. Standley	" "	3220	45 00
	P. Cottingham	" "	3221	45 00
	Benj. LeBay	" "	3222	45 00
	Jas. Kelly	" "	3 23	41 67
	F. B. Brewer	" "	3224	40 00
	J. Conrad	" "	3225	40 00
	J. E. Adams	" "	3226	40 00
	Wash. Townshend	" "	3227	30 00
	Edw. Stalter	" "	3228	20 00
	E. M. Wilcox	1-10 salary, April, inst., 1897...	3229	30 00
	H. Judd	" "	3230	20 00
	A. L. Buckman	" "	3231	20 00
	G. A. Flickinger	" "	3232	20 00
	J. B. Parker	" "	3233	13 50
	Robt. Fischer	" "	3234	10 00
	F. T. Watson	" "	3235	10 00
	J. A. Thompson	" "	3236	16 00
	F. W. Prentiss	Salary for April, 1897	3237	33 33
27	E. E. Harrold	Bal. due serv. as storekeeper	3238	70 00
May 1	D. F. Pugh	17 lectures, college of law	3239	68 00

STATEMENT II—Continued.

Date.	To whom paid.	On account of.	No.	Amount.
1897-				
May 4	F. M. Senter, P. M.....	500-2c, 100-5c, 100-1c stamps...	3240	\$16 00
	E. B. Kinhead	41 lectures law school.....	3241	164 00
5	F. M. Senter, P. M.....	300-2c, 100-1c, 20-3c, 5 sp. d. stamps	3242	8 10
	Mary H. Cope.....	Clerical ass't during Apr. 97...	3243	40 00
	W. I. Chamberlain.....	Expense attending meeting this day.....	3244	13 85
6	W. S. Houghton	62 vols. Harpers magazine	3245	35 00
	A. G. McClurg & Co.....	1 Lawyers Ref. Manual	3246	4 20
	Library Bureau.....	Bibliography fine art.....	3247	1 00
	Scott, Forsman & Co	1 latin manuscript.....	3248	1 75
	Am. Jersey Cattle Club..	25 copies herd register	3249	24 00
	G. E. Stechert	Books	3250	66 40
	Taylor-Austin Co.....	"	3251	86 86
	Seraphine Bindery.....	Book binding	3252	86 00
	Col. Rub. & Belt'g Co ..	Pipe, washers, etc	3253	13 38
	Col. Sewer Pipe Co.....	"	3254	6 66
	Std. Underg'd Cable Co.	Mdse, reels	3255	11 56
	Col. Supply Co	Fittings	3256	10 60
	Tallmadge Hdw. Co.....	Hardware	3257	5 84
	Hart & Crouse Co	Grate, bars and labor	3258	3 14
	C. H. Woodruff	Carp. work	3259	14 44
	J. Garretson	23½ days at \$1.50	3260	35 25
	Spahr & Glenn	Envelopes, etc	3261	5 25
	A. H. Reid	Freight paid on separator.....	3262	4 72
	F. S. Johnston.....	114 hours at 12½c.....	3263	14 25
	The Kilbourne-Jones Co	Nails, screws, etc	3264	2 70
	Col. Supply Co	Valves	3265	2 24
	C. Riddle	20 hours at 12½c.....	3266	2 50
	Mrs. J. R. Spurrier.....	Sewing curtains, test'g mch....	3267	30
	E. L. Fullmer	68¾ hours at 15c	3268	10 30
	F. O. Schoedinger	Tin.....	3269	50
	Jones & Laughlin	1 pulley.....	3270	1 65
	F. J. Hale	15½ hours at 15c.....	3271	2 33
	A. E. Foote.....	Mineralogical specimens.....	3272	19 00
	Kelton & Converse.....	Lumber	3273	9 48
	Arthur Chantler	3 days at \$1.50.....	3274	4 50
	Chas Pixier.....	25 "	3275	37 50
	S. Ziegler	4 "	3276	6 00
	Henry Powers.....	4 "	3277	6 00
	L. Williams.....	4 "	3278	6 00
	T. Algeo	4 "	3279	6 00
	R. Heber & Sons	1 lens, etc	3280	7 00
	Benj. Rushmer	Horseshoeing	3281	26 15
	Cross Lumber Co.....	Lumber	3282	15 12
	J. N. Viney.....	Painting buggy, etc.....	3283	17 50
	J. Weisheimer.....	Grinding feed	3284	7 75
	Col. St. Ry. Co	5 loads cinders	3285	75
	S. T. Knight.. ..	Esimat No. 3 sewer Town's hall	3286	307 73
	Champlin Ptg. Co.....	Cards, envelopes, etc.....	3287	95 50
	C. H. Evans & Co	Adv. in college directory.....	3288	5 00
	A. H. Smythe	Minerographed letters.....	3289	8 40
	C. W. Waid.....	124 hours work at 12½c.....	3290	15 50
	D. C. Huddleson.....	48 hours at 12½c.....	3291	6 00

STATEMENT II—Continued.

Date.	To whom paid.	On account of.	No.	Amount.
1897.				
May 6	C. H. Irwin.....	84 hours work @ 15c.....	3292	\$12 60
	T. Algeo.....	5 days @ \$1.50.....	3293	7 50
	Jas. Stainbrook.....	30 nights @ \$1.50.....	3294	45 00
	A. Chantler.....	22 days @ \$1.50.....	3295	33 00
	M. Peck.....	29 ".....	3296	43 50
	T. Boude.....	30 ".....	3297	45 00
	C. T. Herbert.....	44 " 12½c.....	3298	5 50
	Westinghouse Elec. Co.	4 Arresters.....	3299	27 75
	G. E. Stechert.....	1 Bustof Plato.....	3300	8 25
	Nichol & Carr.....	Painting front gallery (chapel)	3301	4 00
	A. Swain.....	1 Pulpit.....	3302	23 00
	Murray City Coal Co.....	Coal.....	3303	2 50
	E. A. Cole & Co.....	Coal.....	3304	256 86
	Engelke & Bigelow.....	Freight and cartage.....	3305	33 26
	Kelton & Converse.....	Lumber.....	3306	1 25
	Coe & Spencer.....	5 drawing tables.....	3307	42 50
	Griswold Sohl Co.....	Iron rods.....	3308	8 36
	Tallmadge Hdw. Co.....	Hardware.....	3309	10 05
	The E. A. Kinsey Co.....	Washers, bolts, etc.....	3310	11 85
	The O. & C. Co.....	2 dozen saw blades.....	3311	3 00
	Col. Supply Co.....	Tubing.....	3312	1 47
	Cap. City Mch. Works....	Machine steel.....	3313	1 59
	Shilling Fdy. Co.....	2 bbls. sand.....	3314	1 50
	Hanna Paint Co.....	Paint.....	3315	7 19
	Kinkade & Liggett.....	2 pieces channel.....	3316	2 07
	W. High.....	18 hours @ 15c.....	3317	2 70
	F. J. Hale.....	42 ".....	3318	6 30
	Wm. Erdman.....	11 ".....	3319	1 65
	K. Nurian.....	75½ ".....	3320	11 30
	W. B. Calkins.....	105 ".....	3321	15 75
	N. P. Oglesby.....	37 ".....	3322	5 55
	Rochester Opt. Co.....	1 tripod, holders, etc.....	3323	25 80
	Blackwood, Green & Co	1 oven stand.....	3324	6 00
	Bau-ch & Lamb Opt. Co	Slips, squares, etc.....	3325	4 65
	J. Carbutt.....	Lantern plates, photo app.....	3326	128 17
	T. J. Godfrey.....	Exp. attg. meet'g May 5-6.....	3327	10 50
	Kimball & Matthews ..	Card board, paste, etc.....	3328	66 24
	Kauffman-Lattimer Co..	Drugs and chemicals.....	3329	187 97
	Alexis Cope ..	Cash adv. exp. charges.....	3330	35 00
	India Alk. Works.....	1 bbl. savogran.....	3331	18 46
	Col. Mdse. Co.....	1 record.....	3332	50
	Col. Water Works.....	1 meter.....	3333	121 50
	The Ruggles Gale Co ..	1 letter book.....	3334	1 75
	Midland Oil Co.....	1 bbl. dynamo oil.....	3335	11 13
	Monypeny-HammondCo	Matches, etc.....	3336	8 00
	J. M. & W. Westwater..	1 burner and shade.....	3337	70
	Elliott & Machean.....	Saw dust, etc.....	3338	2 00
	Cherington P. & E Co..	1 dating stamp.....	3339	1 00
	McClelland & Co.....	Pens, rubber bands, etc.....	3340	4 75
	Void.....	.....	3341	0
	Nitschke Bros.....	Ink and paste.....	3342	1 25
	C. O. Paper Co.....	Paper.....	3343	3 02
	Col. Wire & Iron Wks....	2 door mats.....	3344	12 00
	Krauss, Butler & B'ham	Box furnishings, (chapel)	3345	32 45

STATEMENT II—Continued.

Date.	To whom paid.	On account of.	No.	Amount.
1897. May 6	O. S. Lear.....	Ink and paper.....	3346	\$2 35
	C. H. Woodruff.....	68 hours @ 27½c.....	3347	18 88
	R. J. Seymour.....	112 hrs. work as guide @ 12½c..	3348	14 00
	W. Conly.....	Work in ex. office 111 hours...	3349	14 35
	D. H. Derflinger.....	Gasoline.....	3350	4 10
	I. H. Miller.....	Affidavits, etc.....	3351	5 90
	M. Schoeler.....	55 hours @ 12½c.....	3352	6 93
	D. McKeag.....	55 hours @ 12½c.....	3353	6 93
	L. M. Alvord.....	41 hours @ 12½c.....	3354	5 14
	C. W. Waid.....	49 hours tree planting @ 12½c.	3355	6 13
	Albaugh Nursery Co....	Trees.....	3356	60 46
	G. W. Clarke.....	100 oak stakes.....	3357	3 00
	J. W. Leamon.....	40 hours @ 30c.....	3358	12 00
	K. Starbuck.....	10 hours @ 12½c.....	3359	1 25
	F. W. Ditto.....	10 hours work @ 12½c.....	3360	1 25
	J. E. Almeter.....	25 hrs. @ 12½c. campus work..	3361	3 12
	H. S. Dyar.....	30 hrs. @ 12½c. " " ..	3362	3 75
	A. F. Wilcox.....	190 hrs. @ 15c. " " ..	3363	28 50
	V. H. Davis.....	26 hrs. @ 12½c. " " ..	3364	3 25
	J. C. Britton.....	66 hours campus work @ 12½c	3365	8 25
	L. F. Barringer.....	20 " " " 12½c	3366	2 50
	Chas. Whipple.....	60 " " " 12½c	3367	7 50
	W. H. Gilmore.....	75 " " " 12½c	3368	9 38
	H. B. Goddard.....	30 " " " 12½c	3369	3 75
	W. Chantler.....	74 " " " 12½c	3370	9 25
	H. Chantler.....	109 " " " 12½c	3371	13 62
	F. Rubins.....	79 " " " 12½c	3372	9 88
	J. S. Parsons.....	89 " " " 12½c	3373	11 13
	F. S. Aten.....	30 " " " 12½c	3374	3 75
	J. S. Brown.....	87 " " " 12½c	3375	10 88
	J. C. Perry.....	20 " " " 12½c	3376	2 50
	D. A. Galehouse.....	45 " " " 12½c	3377	5 63
	Tuttle, Morehouse & F.	5 vols. Yale Review.....	3378	5 00
	Taylor, Austin Co ..	Books.....	3379	19 81
8	Col. Gas Co.....	Gas for April, 1897.....	3380	131 10
11	F. F. D. Albery.....	7 lectures law school.....	3381	28 00
	Geo. W. Knight.....	10 lectures law school.....	3382	40 00
14	J. T. Mack.....	Exp. attending meetings since March 10, 1897.....	3383	34 85
17	F. M. Senter, P. M.....	2000, 1c; 250, 2c; 20, 5c stamps	3384	26 00
18	W. T. Spear.....	Lectures senior class law col- lege.....	3385	120 00
20	J. R. Smith.....	10 sal. May and June insts.....	3386	450 00
22	H. E. Kennedy, Supt..	Pay roll of laborers, Towns. Hall.....	3387	175 85
24	Col. Water Works.....	Water rents and charges.....	3388	408 87
25	F. W. Prentiss.....	Interest due June 1, 1897, on certificates of indebtedness..	3389	3,375 00
26	E. A. Eggers.....	10 sal. May inst., 1897.....	3390	225 00
27	Jas. H. Canfield.....	Salary for May, 1897.....	3391	500 00
	T. F. Hunt.....	10 salary, May inst., 1897.....	3392	250 00
	Edw. Orton.....	" " ".....	3393	225 00
	W. H. Scott.....	" " ".....	3394	225 00

STATEMENT II—Continued.

Date.	To whom paid.	On account of.	No.	Amount.
1897.				
May 27	S. C. Derby.....	1-10 salary May installment 1897	3395	\$225 00
	W. R. Lazenby ..	" "	3396	225 00
	H. A. Weber.....	" "	3397	225 00
	B. F. Thomas.....	" "	3398	225 00
	G. W. Knight.....	" "	3399	225 00
	R. D. Bohannon.....	" "	3400	225 00
	D. S. Kellicott.....	" "	3401	225 00
	C. N. Brown.....	" "	3402	225 00
	A. M. Bleile.....	" "	3403	225 00
	W. A. Kellerman.....	" "	3404	225 00
	B. L. Bowen.....	" "	3405	225 00
	A. C. Barrows.....	" "	3406	225 00
	J. V. Denney.....	" "	3407	225 00
	W. F. Hunter.....	" "	3408	250 00
	J. P. Gordy.....	" "	3409	225 00
	W. F. Magruder.....	" "	3410	225 00
	A. L. Willeston.....	" "	3411	220 00
	N. W. Lord.....	" "	3412	200 00
	G. B. Kauffman.....	" "	3413	200 00
	J. N. Bradford.....	" "	3414	180 00
	F. A. Ray.....	" "	3415	180 00
	Wm. McPherson.....	" "	3416	180 00
	Edw. Orton, jr.....	" "	3417	180 00
	G. W. Mc Coard.....	" "	3418	160 00
	H. C. Lord.....	" "	3419	150 00
	F. C. Caldwell.....	" "	3420	140 00
	E. A. Hitchcock.....	" "	3421	140 00
	W. D. Gibbs.....	" "	3422	140 00
	S. A. Norton.....	" "	3423	120 00
	D. S. White.....	" "	3424	120 00
	R. I. Fulton.....	" "	3425	120 00
	T. C. French.....	" "	3426	100 00
	F. C. Clark.....	" "	3427	100 00
	C. E. Sherman.....	" "	3428	100 00
	O. B. Jones.....	" "	3429	100 00
	J. E. Boyd.....	" "	3430	100 00
	C. W. Weick.....	" "	3431	90 00
	W. A. Knight.....	" "	3432	90 00
	J. S. Hine.....	" "	3433	85 00
	C. B. Morrey.....	" "	3434	85 00
	C. W. Foulk.....	" "	3435	80 00
	J. A. Bownocker.....	" "	3436	80 00
	B. A. Eisenlohr.....	" "	3437	80 00
	H. V. Ames.....	" "	3438	80 00
	C. E. Steffel.....	" "	3439	80 00
	C. L. Arnold.....	" "	3440	80 00
	K. D. Swartzel.....	" "	3441	80 00
	C. A. Dye.....	" "	3442	80 00
	C. A. Bruce.....	" "	3443	75 00
	W. L. Graves.....	" "	3444	75 00
	C. W. Burkett.....	" "	3445	70 00
	A. W. Hodgman.....	" "	3446	70 00
	W. F. Lavery.....	" "	3447	70 00
	A. E. Vinson.....	" "	3448	60 00
	T. K. Lewis.....	" "	3449	60 00
	F. Haas.....	" "	3450	60 00
	E. E. Harrold.....	" "	3451	70 00

STATEMENT II—Continued.

Date.	To whom paid.	On account of.	No.	Amount.
1897.				
June 2	L. S. Wells.....	Repairs, president's house.....	3507	\$25 27
	A. E. Loeb.....	10 hrs. work @ 15c.....	3508	1 50
	A. T. Kasley.....	9½ " " 10c.....	3509	92
	O. A. Davis.....	36 2-5 hrs. work @ 15c.....	3510	5 46
	C. W. Woodruff.....	88 hrs. carp. work @ 27 7-9c.....	3511	24 44
	Mary H. Cope.....	Clerk, asst., May 1897.....	3512	40 00
	Karb & Shafer.....	1 bbl. lard oil.....	3513	44 70
	C. O. Paper Co.....	2 cases toilet paper.....	3514	14 00
	Tracy-Wells Co.....	Maps, etc.....	3515	8 88
	Monypeny-Hammond Co	1 box ivory soap.....	3516	4 00
	Park & Johnson.....	Packing and sending picture..	3517	90
	W. U. Telegraph Co.....	Messages.....	3518	58
	Col. Transfer Co.....	Coupe service.....	3519	2 50
	Quinius & Ridenour.....	1 doz. files.....	3520	1 00
	Alexis Cope.....	Cash adv. express charges.....	3521	20 00
	C. E. Barnes.....	Extra wk., executive office.....	3522	26 30
	R. J. Seymour.....	124 hrs. guide work.....	3523	15 50
	W. Conly.....	140 " ".....	3524	17 50
	G. H. Young, Tr.....	Dues (2 yrs) Ohio Coll. Assoc..	3525	10 00
	T. J. Godfrey.....	Exp. meet. of ex. com.....	3526	7 40
3	P. Hayden Fdy. Co.....	Copper, coke, etc.....	3527	12 21
	Tallmadge Hardw. Co...	Hardware.....	3528	4 50
	Columbus Supply Co...	Fittings.....	3529	3 30
	F. J. Hale.....	20 hrs. work @ 15c.....	3530	3 00
	Benskin Mfg. Co.....	Leather fillets.....	3531	2 40
	Kincade & Liggett.....	2 pcs. angle iron.....	3532	50
	McAllister, Mohler & Co.	12 file boxes.....	3533	1 98
	A. E. Peters.....	26 hrs. @ 15c.....	3534	3 90
	G. E. Stechert.....	Books.....	3535	19 25
	Taylor-Austin Co.....	".....	3536	83 60
	Cap. City Mch. Works...	Castings.....	3537	1 06
	G. E. Stechert.....	Astronomical books.....	3538	14 00
	The Lantern.....	Advertising.....	3539	75 00
	Champlin Ptg. Co.....	Vouchers and circulars.....	3540	8 25
	Champlin Ptg. Co.....	Letterheads, cards, etc.....	3541	49 50
	Nitschke Bros.....	Ink and paste.....	3542	1 25
	C. L. Van Cleve.....	Advertising.....	3543	20 00
	C. O. Paper Co.....	Envelopes, etc.....	3544	24 80
	Richards & Co.....	2 doz. petrie dishes, etc.....	3545	6 15
	J. S. Hine.....	1-10 salary June inst., 1897....	3546	85 00
	M. Peck.....	27 days @ \$1.50.....	3547	40 50
	Jas. Stainbrook.....	27 " ".....	3548	40 50
	Thos. Algeo.....	26 " ".....	3549	39 00
	Arthur Chantler.....	26 " ".....	3550	39 00
	Thos. Bonde.....	28 " ".....	3551	42 00
	C. H. Irvin.....	97 " ".....	3552	14 55
	H. E. Brown & Sons....	Plumbing.....	3553	2 00
	Kemp & Burpee Mfg. Co.	Machinery.....	3554	4 24
	F. S. Johnston.....	104 hrs. work @ 12½c.....	3555	13 00
	A. W. Jackson & Son...	Bookbinding.....	3556	5 85
	J. S. Abbott & Co.....	Pails, hammer, etc.....	3557	2 45
	Palmer Slide Co.....	Slides.....	3558	9 56
	Bausch-Lomb Opt. Co...	1 micrometer, etc.....	3559	2 21
	S. V. Peppel.....	30 hrs. work @ 15c.....	3560	4 50
	Cap. City Mch. Works...	Machinery.....	3561	17 61

STATEMENT II—Continued.

Date.	To whom paid.	On account of.	No.	Amount.
1897.				
June 3	Col. Rubber & Belt'g Co	Expansion joints	3562	\$141 16
	Chas. Pixler.....	4d, @ \$1.50.....	3563	6 00
	H. Braun Sons & Co....	Instruments	3564	18 20
	Hann & Adair.....	Letter heads, envelopes.....	3565	4 20
	D. S. White	Animals for dissection, etc....	3566	4 30
	Smith & Brumley	Preparing skeleton, etc	3567	8 00
	Mrs. C. Walheimer.....	1 cow for dissection	3568	2 00
	W. B. Calkins	102 hours @ 15c.....	3569	15 30
	N. P. Oglesby	35 "	3570	5 25
	Rochester Opt. Co.....	Holders, etc	3571	33 60
	Kimball & Matthews ..	Photo material	3572	5 58
	Kauffman Lattimer Co..	Drugs and chemicals.....	3573	78 87
	C. H. Woodruff	6½ hours carp. work @ 27 7-9c	3574	1 80
	Murray City Cole Co....	Coal	3575	3 70
	E. A. Coal & Co	"	3576	181 32
	J. Antlitz	10½ hours @ 45c, brick mason	3577	4 75
	F. Hays	8 hours @ 45c, brick mason...	3578	3 60
	John Keller.....	400 yards crushed stone @ 80c	3579	320 00
	C. G. Morrow.....	195 hours work @ 12½c.....	3580	24 38
	J. C. Britton	120 " "	3581	15 00
	F. S. Aten.....	17 " "	3582	2 13
	T. W. Ditto.....	29 " "	3583	3 63
	W. Conley	12 " "	3584	1 50
	A. F. Wilcox	270 " "	3585	40 50
	J. W. Leammon	196 " @ 30c	3586	58 80
	W. Chantler.....	245 " 12½c.....	3587	30 63
	Spencer Sigler	230 " "	3588	28 75
	F. Rubins.....	95 " "	3589	11 88
	J. S. Brown.....	100 " "	3590	12 50
	H. Dyar.....	16 " "	3591	2 00
	C. M. Whipple.....	21 " "	3592	2 63
	D. W. Galehouse.....	50 " "	3593	6 25
	W. Gilmore.....	81 hours campus work @ 14½c	3594	10 13
	H. H. Loomis.....	24 " "	3595	3 00
	Karl Starbuck.....	20 " "	3596	2 50
	H. Chantler	250 " "	3597	31 30
	J. C. Perry	33 " "	3598	4 13
	J. E. Alpeter.....	15 " "	3599	1 88
	Cap. City Mch. Wks.....	1½ hours on lawn mower.....	3600	75
	James McOwen.....	98 hours campus work @ 12½c	3601	12 25
	J. N. Spangler	100 " "	3602	12 50
	Ruggles Gale Co.....	Office stationery, etc.....	3603	33 45
	Nitschke Bros.....	Copying paper	3604	50
	Col. Sewer Pipe Co	Pipe	3605	29 25
	C. O. Paper Co	Parchment sheathing	3606	14 40
	Taylor, Beall & Co.....	Stone.....	3607	52 46
	Acme Paving Co.....	Cement.....	3608	3 30
	F. J. Dundon & Co	Lumber	3609	480 79
	Engelke & Bigelow.....	Freight and cartage	3610	166 82
	Engelke & Bigelow.....	" "	3611	5 29

STATEMENT II—Continued.

Date.	To whom paid.	On account of.	No.	Amount.
1897.				
June 4	E. A. Kinsey Co.....	Crucibles, etc.....	3612	\$12 06
	Hann & Adair.....	Stationery, etc.....	3613	48 18
	C. O. Paper & Co.....	Paper.....	3614	2 00
	Cap. City Mch. Wks.....	Machine steel and cutting.....	3615	60
	Schoedinger Fearn & Co.	Hardware.....	3616	43
	Bissell, Dodge & E. Co.	Magnet wire.....	3617	1 44
	J. A. Auld.....	Castings, etc.....	3618	3 46
	R. R. Bowker.....	2 catalogues.....	3619	5 00
	Am. Archt. & B. News Co.	1 set Am. Archt.....	3620	350 00
	Ginn & Co.....	1 book.....	3621	2 00
	A. H. Smythe.....	3 dozen files.....	3622	7 50
	Boston Book Co.....	Books.....	3623	9 15
	C. H. Woodruff.....	Carpeenter work.....	3624	19 15
	G. E. Stechert.....	Books.....	3625	132 39
	Taylor-Austin Co.....	".....	3626	83 88
5	E. B. Kinkead.....	36 lectures, law school.....	3627	144 00
	Col. Gas Co.....	Gas.....	3628	120 75
8	D. F. Pugh.....	19 lect's, law school, May, June	3629	76 00
	O. B. Jones.....	1-10 salary June inst., 1897....	3630	100 00
10	T. Ormston.....	2 hrs. wk., brick layer, town hall	3631	90
	C. W. Foulk.....	1-10 salary June inst., 1897....	3632	80 00
	H. E. Kennedy.....	Service to date, per cont.....	3633	350 25
	C. L. Arnold.....	1-10 salary June inst., 1897....	3634	80 00
12	F. C. Clark.....	".....	3635	100 00
	A. C. Harvey.....	".....	3636	25 00
	S. A. Norton.....	".....	3637	120 00
	J. T. Martin.....	".....	3638	40 00
	A. M. Hodgman.....	".....	3639	70 00
	T. K. Lewis.....	".....	3640	60 00
	R. I. Fulton.....	".....	3641	120 00
	H. E. Kennedy.....	Pay roll w'kmen, town hall...	3642	3,093 80
	C. L. Wattering.....	Hauling brick.....	3643	32 75
	J. J. Hollis.....	Hauling Paving Brick.....	3644	3 00
	C. Durner.....	Tools and pointing same.....	3645	77 55
14	C. Hawck.....	18 hrs. cutting stone @ 37c...	3646	6 65
15	F. Somerset.....	23 hours @ 45c.....	3647	10 35
	Joe Elmore.....	14½ ".....	3648	6 50
	Ira H. Miller.....	Cash pd. J. Miller, 11 hrs. @ 15c.	3649	1 65
	W. T. Magruder.....	1-10 salary June inst., 1897....	3650	225 00
	A. L. Williston.....	".....	3651	220 00
	J. Joergler.....	15½ hours @ 45c.....	3652	6 95
	C. A. Bruce.....	1-10 salary June inst., 1897....	3653	75 00
	Bryson, Brubaker & Co.	Employes liability insurance..	3654	121 00
	C. W. Burkett.....	1-10 salary June inst., 1897....	3655	70 00
	W. F. Lavery.....	".....	3656	70 00
	The Makio.....	Advertising.....	3657	50 00
	E. L. Fullmer.....	38 hours @ 15c.....	3658	5 70

STATEMENT II—Continued.

Date.	To whom paid.	On account of.	No.	Amount.
1897.				
June 15	Lucy Allen.....	10 hrs. @ 12½c. lab. wk.....	3659	\$1 25
	Wm. McPherson	Lectures, etc.....	3660	16 11
	T. Cahill	33½ hrs. as brick layer's helper	3661	5 00
16	T. J. Godfrey.....	Expenses meeting, June 14, '97.....	3662	14 95
17	H. Judd	1-10 sal. June inst., '97	3663	20 00
	C. B. Morrey	Materials for dissection.....	3664	7 51
	W. I. Chamberlain.....	Exp. meeting, June 15, '97.....	3665	15 15
	J. A. Brownocker	1-10 sal. June inst., '97.....	3666	80 00
	J. H. Jones	Serv. quartermaster, spring term.....	3667	5 00
	H. Gamper.....	Janitor wk. 90 hrs. @ 15c	3668	13 50
	H. C. Chapin.....	63 hrs. work on faculty records @ 15c	3669	9 45
	C. W. Waid	160 hrs. lib. wk. @ 12½; 10 hrs. @ 15c.....	3670	21 50
	Edw. Orton	1-10 sal. June inst., '97.....	3671	225 00
	E. Schultz	38 hrs. brick laying @ 45c.....	3672	17 10
	C. Smith	34 " "	3673	15 30
	F. Haas	1-10 sal. June inst., '97.....	3674	60 00
	C. Kopp	38 hrs. wk. @ 45c.....	3675	17 10
	C. B. Morrey	1-10 sal. June inst., '97.....	3676	85 00
	K. D. Swartzel.....	" "	3677	80 00
	E. A. Eggers.....	" "	3678	225 00
	D. S. Kellicott.....	" "	3679	225 00
	W. L. Graves	" "	3680	75 00
	John Wasmuth	13½ hrs. brick layer, Towns. Hall.....	3681	6 05
	B. L. Bowen	1-10 sal. June inst., '97.....	3682	225 00
	Wm. McPherson.....	" "	3683	180 00
	B. F. Thomas.....	" "	3684	225 00
	W. D. Gibbs.....	" "	3685	140 00
	W. A. Knight.....	" "	3686	90 00
	C. W. Weick.....	" "	3687	90 00
	G. W. Knight	" "	3688	225 00
	H. A. Weber.....	" "	3689	225 00
	Ray M. Hughes.....	Bal. due on salary, yr. 1896-7...	3690	85 00
	C. Lintner.....	36½ hrs. b'k layer, Towns. Hall, @ 45c.....	3691	16 40
	W. Oare.....	15 hrs. b'k layer, Towns. Hall, @ 45c.....	3692	6 75
	J. H. Canfield.....	Cash pd. A. S. Draper exp. comm. address.....	3693	22 65
18	J. T. Mack	Exp. meet'gs May 21 and June 13-14	3694	20 44
	F. L. Landacre.....	1-10 sal. June inst., '97.....	3695	60 00
	S. C. Derby.....	" "	3696	225 00
	R. D. Bohannon.....	" "	3697	225 00
	W. A. Kellerman	" "	3698	225 00
	A. L. Buckman	" "	3699	20 00
	B. A. Eisenlohr	" "	3700	
	J. Mc. L. Smith	Exp. att'dg. meet'g June 13 to 16, '97.....	3701	13 20
	D. S. White	1-10 sal. June inst., '97.....	3702	120 00
	T. F. Hunt.....	" "	3703	250 00

STATEMENT II—Continued.

Date.	To whom paid.	On account of.	No.	Amount.
1897.				
June 15	J. Platto.....	Brick laying Towns. hall 36½ hours @ 45c.....	3704	\$16 40
	E. N. Tucker.....	24 hrs. brick laying @ 45c.....	3705	10 80
	J. P. Gordy.....	1/10 salary June inst. '97.....	3706	225 00
	F. E. Kester.....	" " ".....	3707	50 00
19	W. F. Hunter.....	" " ".....	3708	250 00
	Edw. Orton, Jr.....	" " ".....	3709	180 00
	J. N. Bradford.....	" " ".....	3710	180 00
	Wm. Hodge.....	29 hours work @ 45c.....	3711	13 05
	E. Hueber.....	49 hrs. brick laying @ 45c.....	3712	22 05
	W. Stark.....	15½ " " ".....	3713	6 95
	W. Heiser.....	49 " " ".....	3714	22 05
	B. Seliger.....	28 " " ".....	3715	12 60
	G. Wagner.....	34 " " ".....	3716	15 30
	Harriet Townshend.....	1/10 salary June inst. '97.....	3717	50 00
	Gertrude Kellicott.....	" " ".....	3718	30 00
18	Maude Jeffrey.....	" " ".....	3719	30 00
19	Paul Hopple.....	23 hrs. cutting stone @ 15c.....	3720	3 45
	H. C. Lord.....	1/10 salary June inst. '97.....	3721	150 00
	C. Voeglin.....	36½ hrs. bk. laying @ 45c.....	3722	16 40
	A. C. Barrows.....	1/10 salary June inst. '97.....	3723	225 00
	E. M. Wilcox.....	" " ".....	3724	30 00
	H. M. Biebel.....	" " ".....	3725	30 00
	C. A. Grate.....	29 hours @ 15c.....	3726	4 35
	W. R. Beattie.....	Salary for June '97.....	3727	50 00
	W. R. Lazenby.....	1/10 salary June 1897.....	3728	225 00
23	F. M. Senter, P. M.....	2,000 stamped envelopes.....	3729	44 32
21	J. Voeglin.....	49 hrs. brick laying @ 45c.....	3730	22 05
	F. C. Caldwell.....	1/10 salary June inst. 1897.....	3731	140 00
	W. E. Chappell.....	13 hours work @ 12½c.....	3732	1 73
	C. E. Sherman.....	1/10 salary June inst. '97.....	3733	100 00
	E. A. Hitchcock.....	" " ".....	3734	140 00
	H. James.....	18 hours carp. work @ 15c.....	3735	2 70
	C. N. Brown.....	1/10 salary June inst. 1897.....	3736	225 00
22	Mrs. Lillian Zurk.....	13½ h. @ 45c. due A. Zurk.....	3737	6 05
	P. H. Campbell.....	54 hrs. @ 45c. bricklaying.....	3738	24 30
	W. Conley.....	116 hrs. guide work @ 12½c.....	3739	14 50
	E. F. Coddington.....	1/10 salary June inst. 1897.....	3740	30 00
23	W. H. Scott.....	" " ".....	3741	225 00
	J. V. Denney.....	" " ".....	3742	225 00
	J. E. Boyd.....	" " ".....	3743	100 00
	D. M. Massie.....	Exp. attg. meeting Mar. 16 '97.....	3744	43 05
	H. V. Ames.....	1/10 salary June inst. 1897.....	3745	80 00
24	N. W. Lord.....	" " ".....	3746	200 00
	Jas. Hamler.....	36 hrs. bk. layer helper @ 15c.....	3747	5 40
	J. H. Canfield.....	Salary for June 1897.....	3748	500 00
	A. M. Bleile.....	1/10 salary June inst. 1897.....	3749	225 00
	G. B. Kauffman.....	" " ".....	3750	200 00
	F. A. Ray.....	" " ".....	3751	180 00
	G. W. McCoard.....	" " ".....	3752	160 00
	T. E. French.....	" " ".....	3753	100 00
	C. A. Dye.....	" " ".....	3754	80 00
	A. E. Vinson.....	" " ".....	3755	60 00
	E. E. Harrold.....	" " ".....	3756	70 00
	W. K. Moorehead.....	" " ".....	3757	50 00

Ohio State University

Twenty-Seventh Annual Report

OF THE

Board of Trustees

TO THE

GOVERNOR OF OHIO

FOR THE

Year Ending June 30, 1897.

PART II.

The State has no material resources at all comparable with its citizens,
and no hope of perpetuity except in the intelligence
and integrity of its people.

Ohio State University

Twenty-Seventh Annual Report

Board of Trustees

THE UNIVERSITY BULLETINS are issued monthly, at least six months in each year
Entered at the Postoffice at Columbus, Ohio, as second-class matter.

PART II

CALENDAR

1897

JULY							AUGUST							SEPTEMBER							
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	
					1	2	3	1	2	3	4	5	6	7				1	2	3	4
4	5	6	7	8	9	10	8	9	10	11	12	13	14	5	6	7	8	9	10	11	
11	12	13	14	15	16	17	15	16	17	18	19	20	21	12	13	14	15	16	17	18	
18	19	20	21	22	23	24	22	23	24	25	26	27	28	19	20	21	22	23	24	25	
25	26	27	28	29	30	31	29	30	31					26	27	28	29	30			
OCTOBER							NOVEMBER							DECEMBER							
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	
					1	2		1	2	3	4	5	6					1	2	3	4
3	4	5	6	7	8	9	7	8	9	10	11	12	13	5	6	7	8	9	10	11	
10	11	12	13	14	15	16	14	15	16	17	18	19	20	12	13	14	15	16	17	18	
17	18	19	20	21	22	23	21	22	23	24	25	26	27	19	20	21	22	23	24	25	
24 31	25	26	27	28	29	30	28	29	30					26	27	28	29	30	31		

1898

JANUARY							FEBRUARY							MARCH						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
.....	.....	.....	.....	.....	.....	1	.....	.....	1	2	3	4	5	.....	.....	1	2	3	4	5
2	3	4	5	6	7	8	6	7	8	9	10	11	12	6	7	8	9	10	11	12
9	10	11	12	13	14	15	13	14	15	16	17	18	19	13	14	15	16	17	18	19
16	17	18	19	20	21	22	20	21	22	23	24	25	26	20	21	22	23	24	25	26
23 30	24 31	25	26	27	28	29	27	28	.....	.....	.....	.....	.....	27	28	29	30	31	.....	.....
APRIL							MAY							JUNE						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
.....	.....	.....	.....	.....	1	2	1	2	3	4	5	6	7	.....	.....	1	2	3	4	.....
3	4	5	6	7	8	9	8	9	10	11	12	13	14	5	6	7	8	9	10	11
10	11	12	13	14	15	16	15	16	17	18	19	20	21	12	13	14	15	16	17	18
17	18	19	20	21	22	23	22	23	24	25	26	27	28	19	20	21	22	23	24	25
24	25	26	27	28	29	30	29	30	31	.....	.....	.....	.....	26	27	28	29	30	.....	.....

Days and Dates

1897

Thanksgiving Recess.....	{ Thursday, November 25.
	{ Friday, November 26.
First term ends	Wednesday, December 22
Christmas Vacation.	

1898

Second Term begins.....	Wednesday, January 5
First Semester (College of Arts, Philosophy and Science) ends.....	Friday, February 4
Second Semester (College of Arts, Philosophy and Science) begins.....	Monday, February 7.
University Day.....	Tuesday, February 22.
Second Term ends.....	Friday, March 25.
Third Term begins.....	Monday, March 28.
Spring Recess.	
Meeting of Trustees.....	Wednesday, April 6.
High School Day.....	Friday, May 20.
Senior Vacation begins.....	Saturday, May 21.
Field Day—Athletic Association.....	Saturday, May 21.
Memorial Day.....	Monday, May 30.
Competitive Drill, Cadet Battalion.....	Saturday, June 4.
Final Examinations (all Colleges)	{ Monday to June 6.
	{ Friday, June 10
Baccalaureate Sermon.....	Sunday June 12
Entrance Examinations (8 A. M.).....	{ Monday, June 13.
	{ Tuesday, June 14.
Class Day	Monday, June 13.
Meeting of Trustees	Tuesday, June 14.
Alumni Day.....	Tuesday, June 14.
COMMENCEMENT	Wednesday, June 15.
Summer Vacation.	
Entrance examinations (8 A. M.) and Registration ...	{ Monday, September 12.
	{ Tuesday, September 13.
	{ Wednesday, September 14.
Lectures and Class-work begin (all Colleges)	Thursday, September 15.
Meeting of Trustees.....	Wednesday, September 21.

Board of Trustees

1896-1897

		Term Expires
JOSEPH H. OUTHWAITE.....	Columbus.....	May 13, 1898.
WM. I. CHAMBERLAIN.....	Hudson.....	" 1899.
DAVID M. MASSIE.....	Chillicothe.....	" 1900.
JOHN T. MACK.....	Sandusky.....	" 1901.
LUCIUS B. WING.....	Newark ..	" 1902.
THOMAS J. GODFREY.....	Celina.....	" 1903.
J McLAIN SMITH.....	Dayton.....	" 1904.

Officers of the Board

JOHN T. MACK.....	President.
WM. I. CHAMBERLAIN.....	Vice President.
ALEXIS COPE.....	Secretary.
FRED W. PRENTISS.....	Treasurer.

Committees of the Board

EXECUTIVE	FARM	FINANCE
L. B. WING	WM. I. CHAMBERLAIN	D. M. MASSIE
T. J. GODFREY	L. B. WING	T. J. GODFREY
J H. OUTHWAITE	J. McLAIN SMITH	J. McLAIN SMITH

FACULTY AND COURSES OF STUDY

THOMAS J. GODFREY	WM. I. CHAMBERLAIN	JOHN T. MACK
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Members of the Faculties, and Other Instructors

1896-1897

JAMES HULME CANFIELD.....University Grounds

President

A. B., Williams, 1868: A. M., Williams, 1877: LL. D., Williams, 1893. Railroad construction, 1868-1872: Practicing Attorney, 1872-'77: Superintendent of Schools, St. Joseph, Michigan, 1874-'77: Professor of History and English Literature, State University of Kansas, 1877-'84: Professor of History and Political Science, State University of Kansas, 1884-'87: Professor of American History and Civics, State University of Kansas, 1887-'91: Chancellor of the University of Nebraska, 1891-'95: present position since 1895.

EDWARD ORTON 100 Twentieth street

Professor of Geology, and State Geologist

A. B., Hamilton, 1848: Ph. D., Hamilton, 1875: LL. D., Ohio State University, 1881. Student of Theology, Lane Seminary, 1849: Student at Lawrence Scientific School, Harvard University, 1852. Student, Andover, 1854: Professor of Natural Science, State Normal School, Albany, N. Y., 1856-'59: Principal, Chester Academy, N. Y., 1859-'65: Professor of Natural History, Antioch, 1865-'72: President of Antioch, 1872-'73: President of the Ohio State University, 1873-'81: State Geologist, 1869: present position since 1881.

WILLIAM HENRY SCOTT.....131 Fifteenth avenue

Professor of Philosophy

A. B., Ohio University, 1862: M. A., Ohio University, 1865: LL. D., Ohio University and Ohio Wesleyan, 1884. Superintendent of Public Schools, Athens, Ohio, 1862-'64: Principal of the Preparatory Department of the Ohio University, 1864-'65: Pastor of Main Street M. E. Church, Chillicothe Ohio 1865-'67: Pastor of Town Street M. E. Church, Columbus Ohio, 1867-'69: Professor of Greek, Ohio University, 1869-'72: President and Professor of Philosophy, Ohio University, 1872-'83: President and Professor of Philosophy, Ohio State University 1883-'95: present position since 1895.

SIDNEY AUGUSTUS NORTON.....363 East Town street

Lecturer in General Chemistry

A. B., Union, 1856: A. M., Union, 1859: M. D., Miami Medical College, 1867: Ph. D., Kenyon, 1878: LL. D., Wooster, 1881. Student at Bonn, Leipsic, Heidelberg: Teacher, Poughkeepsie Collegiate Academy, 1856: Tutor, Union, 1857: Principal, Hamilton (Ohio) High School 1858: Instructor of Natural Science, Cleveland High Schools, 1859-'66: Teacher of Natural Science, Mt. Auburn, 1866-'72: Professor of Chemistry, Miami, 1867-'72: Acting Professor of Physics, Union, 1872-'73: Professor of Chemistry, Ohio State University, 1873-'95: present position since 1895.

NATHANIEL WRIGHT LORD.....338 West Eighth avenue
Professor of Mineralogy and Metallurgy, Director of the School of Mines, and Dean of the College of Engineering

E. M., Columbia, 1876, Present position since 1878,

SAMUEL CARROLL DERBY.....93 Fifteenth avenue

Professor of Latin, and Dean of the College of Arts, Philosophy and Science

A. B., Harvard, 1866: A. M., Harvard, 1869 (in course), 1877 (by examination). Principal of Schools, Ilion, N. Y., 1866-'67: Assistant in Dixwell's Classical School, Boston, 1867-'70: Professor of Language, Antioch 1870-'81. President, Antioch, 1877-'81: Student, Latin and History, Harvard, 1876-'77: Student, Latin and History, Johns Hopkins, 1880-'81: Student, Latin, Harvard, 1892-'93: present position since 1881

WILLIAM RANE LAZENBY..... The Marion

Professor of Horticulture and Forestry

B. Agr., Cornell, 1874; M. Agr., Iowa Agricultural College, 1887. Instructor Horticulture and Botany, Cornell, 1874-77; Assistant Professor of Horticulture, Cornell, 1877-81; Lecturer, N. Y. State Grange, 1874-81; Director Ohio U. S. Experiment Station, 1882-84; Professor of Botany and Horticulture, Ohio State University, 1881-92; present position since 1892.

JOSIAH RENICK SMITH.....230 East State street

Professor of the Greek Language and Literature, and President pro tempore of the University Faculty

A. B., Amherst, 1871; A. M., Amherst, 1883; Principal, Mound Street School, Columbus, 1871-73; Teacher, Columbus High School, 1873-76; Assistant Professor of Ancient Languages, Ohio State University, 1873-81; Student at Leipzig, 1881-83; present position since 1883.

HENRY ADAM WEBER1342 Forsythe avenue

Professor of Agricultural Chemistry

Graduate of Polytechnic School, Kaiserslautern, 1866; Student Chemistry under Von Leibig and Reischner, and of Mineralogy under Von Kobell, Munich, 1866-68; Ph. D., Ohio State University, 1879. Ohio Geological Survey, Chemical Department, 1869-74; Professor of General Chemistry and Mineralogy, Illinois State University, 1874-82; present position since 1884.

BENJAMIN FRANKLIN THOMASUniversity Grounds

Professor of Physics and State Sealer of Weights and Measures

B. Sc., Ripon, 1874; M. Sc., Ripon, 1877; Ph. D., Stevens Institute, 1880. Instructor in Mathematics and Physics, Carleton College, Northfield, Minnesota, 1876-79; Professor of Physics, University of Missouri, 1880-85; engaged in electrical test work at the International Electrical Exhibition at Philadelphia, 1884, and at the World's Columbian Exhibition, Chicago, 1893; present position since 1885.

GEORGE WELLS KNIGHT.....University Grounds

Professor of History and Political Science, and of Constitutional Law

A. B., University of Michigan, 1878; A. M., University of Michigan, 1883; Ph. D., University of Michigan, 1884. Student, Law, University of Michigan, 1878-79; Principal of High School, Lansing, Michigan, 1879-81; Student, History and Political Science, University of Michigan, 1882-84; Instructor in History, Ann Arbor High School, 1883-85; Professor of History and English Literature, Ohio State University, 1885-87; Student at Universities of Halle, Berlin, and Freiburg, 1889-90; present position since 1887.

ROSSER DANIEL BOHANNAN.....Sixteenth and Indianola avenues

Professor of Mathematics

B. Sc., C. E., E. M., University of Virginia, 1876. Student of Mathematics and Physics, Cambridge, England, 1880-82; Gottingen, 1882-83; Teacher of Mathematics and Latin, Suffolk Collegiate Institute, Virginia, 1876-77; Teacher of Mathematics and English, New York Latin School, New York City, 1877-78; Professor of Mathematics and Natural Science, Emory and Henry College, 1878-80; Acting Professor of Mathematics, University of Virginia, 1883-84; Assistant Professor in Mathematics and Physics, University of Virginia, 1884-87; Professor of Mathematics and Astronomy, Ohio State University, 1887-95; present position since 1895.

DAVID SIMONS KELLICOTT.....1332 Highland street

Professor of Zoology and Entomology

B. Sc., University of Syracuse, 1869; Ph. B., Syracuse, 1874; Ph. D., Syracuse, 1881. Teacher of Mathematics, Keystone State Normal School, 1870-71; Teacher of Natural Sciences, Buffalo State Normal School, 1873-88; Teacher of Botany, College of Pharmacy, Buffalo, 1886-88; Professor of Zoology and Comparative Anatomy, Ohio State University, 1888-91; present position since 1891.

C. NEWTON BROWN.....1343 Forsythe avenue

Professor of Civil Engineering

C. E., Miami, 1886. Resident Engineer of the Ironton Extension of the Pittsburgh, Cincinnati-Chicago & St. Louis R. R., 1881; Ohio Geological Survey, 1882; Assistant in Mathematics and Civil Engineering, Ohio State University, 1883-85; Associate Professor of Civil Engineering, Ohio State University, 1885-90; present position since 1890.

ERNST AUGUST EGGERS University Grounds

Professor of Germanic Languages and Literatures

Student in Gymnasium at Hanover, the Sorbonne, College de France; at Michigan State Normal School. Instructor in German in the High Schools of Wisconsin and Michigan for ten years; Assistant in German, Ohio State University, 1886-'88; Assistant Professor of German, same institution, 1888-'90; present position since 1890.

ALBERT MARTIN BLEILE 218 King avenue

Professor of Anatomy and Physiology

M. D., Starling Medical College, 1876. Student, Vienna. Chemistry and Physiology, 1876-'77. Student Physiology, Leipsic, 1877-'78; Student Anatomy and Histology, Paris, 1878-'79; Lecturer on Experimental Physiology, Starling Medical College, 1879; Professor of Physiology, Starling Medical College, 1884; present position since 1891.

WILLIAM ASHBROOK KELLERMAN 175 Eleventh avenue

Professor of Botany

B. Sc., Cornell, 1874; Ph. D., Zurich, 1881. Professor of Natural Science, Wisconsin State Normal School, 1874-'79; Professor of Botany and Horticulture, Kentucky State College, 1881-'82; Professor of Botany and Zoology, Kansas State Agricultural College, 1883-'87; Professor of Botany, Kansas State Agricultural College, 1888-'91; Botanist, Kansas State Board of Agriculture, 1883-'91; Founder and first Editor of *Journal of Mycology*; present position since 1891.

THOMAS FORSYTH HUNT 188 West Tenth avenue

Professor of Agriculture, and Dean of the College of Agriculture and Domestic Science

B. Sc., University of Illinois, 1884; M. Sc., University of Illinois, 1892. Assistant to Illinois State Entomologist, 1885-'86; Assistant in Agriculture, University of Illinois, 1886-'88; Assistant Agriculturist, Illinois Experiment Station, 1888-'91; Professor of Agriculture, Pennsylvania State College, 1891-'92; present position since 1892.

ARTHUR LYMAN WILLISTON 652 Franklin avenue

Director of the Department of Industrial Arts

S. B., Massachusetts Institute of Technology, 1889. Railroad Engineering, two years; Instructor in Thermodynamics and Steam Engineering, Massachusetts Institute of Technology, 1891-'92; present position since 1893.

GEORGE BEECHER KAUFFMAN University Grounds

Professor of Pharmacy, and Dean of the College of Pharmacy

B. Sc., Ohio Wesleyan University, 1877. Pharm. D., Scio, 1894. Associate Professor of Pharmacy, Ohio State University, to 1894. Present position since 1894.

BENJAMIN LESTER HOWEN 46 Jefferson avenue

Professor of Romance Languages and Literatures

A. B., University of Rochester, 1881; Ph. D., Johns Hopkins University, 1888. Professor of Languages, New Windsor College, Maryland, 1882-'83; Graduate Student and Assistant in French, Johns Hopkins University, 1884-'86, and 1887-'88; Student at the Universities of Paris, Bonn, Rome and Madrid, 1885-'86 and 1886-'87; Professor of French and Latin, Bowdoin College, 1888-'89; Acting Associate Professor of French Language and Literature, Ohio State University, 1889-'90; Associate Professor of Romance Languages and Literatures, Ohio State University, 1890-'94; present position since 1894.

JOSEPH VILLIERS DENNEY The Marion

Professor of Rhetoric and the English Language, and Secretary of the University Faculty

A. B., University of Michigan, 1885. Journalist, 1885-'88; Principal of the Aurora (Illinois) High School, 1885-'90; Instructor in English and Graduate Student, University of Michigan, 1890-'91; Instructor in Greek and Latin, Princeton (N. J.) Summer School, 1892; Associate Professor of Rhetoric, Ohio State University, 1891-'94; present position since 1894.

ALLEN CAMPBELL BARROWS 15th and Indianola avenues

Professor of English Literature

A. B., Western Reserve, 1861; A. M., Western Reserve, 1866; D. D., Iowa College, 1889. Teacher, Latin and Greek, Phillips Academy, 1865-'66; Professor of Physics, Western Reserve, 1866-'70; Professor of Latin and English Literature, Western Reserve, 1870-'71; Professor of English Literature and History, Iowa Agricultural College, 1887-'94; present position since 1894.

- EDWARD ORTON, JR.....The Normandie
Director of the Department of Clay-Working and Ceramics
 E. M., Ohio State University, 1884. Assistant to Ohio Geological Survey, 1882; Chemist for Columbus and Hocking Coal and Iron Company, 1885-'86; Superintendent of Bessie Furnace, 1887-'88; Chemist, Iron Works, Homestead, Pennsylvania, 1891; present position since 1894.
- JOHN THOMAS MARTIN.....1194 Fair avenue
Professor of Military Science and Tactics
 Graduated from West Point, with rank of Second Lieutenant. U. S. Artillery, 1889. Promoted to rank of First Lieutenant, 5th Artillery, U. S. A., 1896. Appointed to present position, Commandant of University Battalion, September, 1895.
- ROBERT IRVING FULTON.....Delaware, Ohio
Professor of Elocution and Oratory
 A. M., Ohio Wesleyan University, 1887. Law Student, University of Virginia, 1877; Superintendent Public Schools, Berlin, Ill., 1877-'78; Associate Principal, School of Oratory, Kansas City, Mo., 1878-'81, and Director of same, 1884-'92; Instructor, Elocution, Ohio Wesleyan, Missouri State, and Kentucky State Universities, 1882-'90; Assistant Professor, English Department, Kansas State University, 1890-'91; Professor of Elocution and Oratory, Ohio Wesleyan University, since 1891; Lecturer, Elocution and Oratory, Ohio State University, 1892-'95; present position since 1895.
- WILLIAM FORREST HUNTER.....1032 Bryden Road ' 18 Board of Trade
Dean of the College of Law, Professor of the Law of Sales, Bailments, Evidence, Wills, Construction of Contracts, Law of Corporations; Judge of Moot Courts
 Admitted to the Bar in 1861; Student, University of Michigan Law School; practicing attorney since 1866; Dean of the Law School, Ohio State University, 1892-'96; present position since 1896.
- JOSEPH NELSON BRADFORD.....54 West Tenth avenue
Associate Professor of Drawing
 M. E., Ohio State University, 1883. Draftsman, Ohio Geological Survey, 1882; Machinist and Draftsman, Pittsburg, Cincinnati and St. Louis Railroad, 1883-'85; Assistant in Mechanical Engineering and Drawing, Ohio State University, 1885-'90, Assistant Professor of Drawing, Ohio State University, 1890-'93. Present position since 1893.
- WILLIAM McPHERSON, JR.....University Grounds
Associate Professor of General Chemistry
 B. Sc., Ohio State University, 1887; M. Sc., Ohio State University, 1890; D. Sc., Ohio State University, 1895. Instructor in Chemistry and Physics, Toledo High School, 1887-'89; Instructor in Chemistry, Toledo High School and Manual Training School, 1882-'92; Assistant in Chemistry, Ohio State University, 1892-'93; Assistant Professor in Chemistry, Ohio State University, 1893-'95; present position since 1895.
- HENRY CURWEN LORD.....186 West Ninth avenue
Director of the Emerson McMillen Observatory and Associate Professor of Astronomy
 B. Sc., University of Wisconsin, 1889. Assistant in Washburn Observatory, University of Wisconsin; with Thompson-Houston Electric Company, 1889; Assistant in Mathematics and Astronomy, Ohio State University, 1891-'94. Present position since 1895.
- DAVID STUART WHITE.....317 King avenue
Associate Professor of Veterinary Medicine, and Dean of the College of Veterinary Medicine
 D. V. S., Ohio State University, 1890. Student, Royal Veterinary Schools of Hanover, Berlin and Dresden, 1890-'91; at Imperial Veterinary Institute of Vienna, 1891-'93; Assistant in Veterinary Medicine, Ohio State University, 1893. Present position since 1895.
- DAVID FRANKLIN PUGH.....1320 Highland street: Court House
Professor of Equity Jurisprudence and Law of Real Property
 Member of West Virginia Constitutional Convention, 1872; Member of Legislature, West Virginia, 1874-'75; Prosecuting Attorney, Tyler County, West Virginia, 1870-'80; Common Pleas Judge, Franklin County, Ohio, since 1887. Present position since 1891.

PAUL JONES.....1194 Bryden Road; 20 Hayden Building

Professor of the Law of Contracts

B. A., Ohio State University, 1890. Present position since 1891.

EMILIUS OVIATT RANDALL.....1025 Oak street; Supreme Court Room

Professor of Commercial Law

Ph. B., Cornell, 1874; LL. B., LL. M., Ohio State University, 1892. Admitted to practice, 1890; Secretary Ohio State Historical Society; Reporter, Supreme Court of Ohio. Present position since 1893.

EDGAR BENTON KINKEAD.....Wyandotte avenue; Board of Trade

Professor of the Law of Pleading and Practice, Torts, and of Criminal Law

Author of "Code Pleading;" Editor of *Ohio Law Journal* Present position since 1895.

WILLIAM THOMAS MAGRUDER.....The Marion

Professor of Mechanical Engineering

M. E., Stevens Institute of Technology, 1881. Student in Machine Design and Shop Practice, Taunton, Mass., 1881-'86 and in Chemistry and Mathematics, etc., Johns Hopkins University, 1886-'87. Professor of Mechanical Engineering (practical and theoretical) Vanderbilt University, 1887-'96. Present position since September, 1896.

JOHN PANCOAST GORDY.....The Marion

Professor of Pedagogy

A. B., Wesleyan University, 1878; A. M., Wesleyan University, 1881; Ph. D., University of Leipsic, 1884. Student in Philosophy at Leipsic, 1883-'84; Student in Philosophy at Johns Hopkins University, 1886; Instructor in Philosophy, Wesleyan University, 1878-'83; Assistant in Revision of Webster's Dictionary, 1884-'85; Professor of Philosophy and Pedagogy, Ohio University, Athens, 1886-'96; Translator of the first two volumes of Kuno Fischer's History of Modern Philosophy; Editor of the Journal of Pedagogy, 1887-'90; Author of "Hume as a Skeptic;" "Lessons in Psychology," "The Training of Teachers in the United States," "History of Political Parties in the United States." Present position since September, 1896.

WILLIAM HERBERT PAGE.....527 East Broad street. 27 Board of Trade

Professor of Elementary Law

B. A., Yale, 1889; LL. B., Ohio State University, 1892; LL. M., same institution, 1894; Instructor in Central High School, Columbus, Ohio, 1889-'96. Present position since September, 1896.

FAXON FRANKLIN DUANE ALBERY.....37 Lexington avenue. 119½ S. High street

Professor of the Law of Insurance

Student of Law and Philosophy in the University of Berlin and the University of Leipsic. Present position since September, 1896.

FRANK ARNOLD RAY.....The Marion

Associate Professor of Mine Engineering

M. E., Ohio State University, 1887. Since then engaged in various lines of work coming within the range of Mine Engineering; Assistant Professor of Mine Engineering, Ohio State University, 1895-'96. Present position since 1896.

OLIVE BRANCH JONES.....53 Eleventh avenue

Librarian

Assistant Librarian, 1887. Student, Library work, under Mrs. Dixon, Dennison; Student, Librarians' Summer School, Amherst, under Mr. Fletcher; Student, Chicago University, under Mrs. Dixon. Present position since 1894.

GEORGE KILBON NASH.....43 Jefferson avenue; Wyandotte Building

Lecturer on the Law of Negligence

A. B., Oberlin. Admitted to practice, 1867; Prosecuting Attorney of Franklin County; Commissioner, Supreme Court of Ohio; Attorney General of Ohio Present position since 1891.

JAMES HENRY COLLINS.....57 Lexington avenue; Ruggery Building

Lecturer on Federal Practice

In practice for thirty years. Present position since 1891.

WILLIAM THOMAS SPEAR..... 82 Hoffman avenue. Supreme Court Room

Lecturer on Circuit and Supreme Court Practice and Extraordinary Remedies

LL. B., Harvard Law School, 1859. Began practice, 1859. City Solicitor, Warren, Ohio, 1870; Prosecuting Attorney, Trumbull County; Judge of Court of Common Pleas, 1878; Judge of Supreme Court, 1885. Present position since 1896

GEORGE WASHINGTON MCCOARD..... 319 West Fifth avenue

Assistant Professor of Mathematics

B. A., Bethany, West Virginia, 1873; M. A., Bethany, 1882. Principal of Oakdale Classical Normal Institute, Allegheny County, Pennsylvania, 1873-'74; Private Tutor in Cleveland, Ohio, 1874-'80; Principal of Public Schools, Irving Park, Chicago, 1880-'81; Teacher of Latin and Mathematics, Columbus High School, 1881-'82; Assistant in Mathematics and Latin, Ohio State University, 1882-'87. Present position since 1887.

*WILBUR HENRY SIEBERT

Assistant Professor of History

A. B., Ohio State University, 1888; A. B. (with honorable mention) Harvard University, 1889; M. A., Harvard, 1890. Student, Freiburg and Berlin, 1890-'91; Student, Harvard, 1895; Assistant in History and Political Science, Ohio State University, 1891-'93; Assistant Professor of History, Ohio State University, 1893-'95. Student, Harvard University, 1895-'97.

FRANCIS CARY CALDWELL..... 100 West Eighth avenue

Assistant Professor of Electrical Engineering

A. B., Cornell, 1890; M. E., Cornell, 1891. With Thompson-Houston Works, Lynn, Mass., 1891-'92; Student at the National Polytechnic, Zurich, 1892-'93; Assistant Professor of Physics Ohio State University, 1893-'97. Present position since 1897.

EMBURY ASBURY HITCHCOCK..... 1386 Neil avenue

Assistant Professor of Experimental Engineering

M. E., Cornell, 1890. Straightline Engine Company, Syracuse, N. Y., 1889; Corliss Steam Engine Company, Providence, R. I., 1890-'93; Assistant in Mechanical Engineering, Ohio State University, 1893-'95. Present position since 1895.

*CHARLES WALTER MESLOH

Assistant Professor of German

A. B., Ohio State University, 1889; M. A., Ohio State University, 1895. Student in the University of Chicago, 1894. Student, University of Berlin, 1895-'97; Teacher of German, Ohio State University, since graduation.

WILLIAM DAVID GIBBS..... Neil and Tenth avenues

Assistant Professor of Agriculture

B. Sc., University of Illinois, 1893. Fellowship in Agriculture, University of Illinois, 1893-'94; Post-graduate work, University of Illinois and University of Wisconsin, 1895; Expert Assistant in Division of Agricultural Soils of the United States Department of Agriculture, summer of 1895; Teacher of Bacteriology, University of Illinois, fall term, 1893; Assistant in Animal Husbandry, University of Illinois, winter term, 1894; Assistant in Agriculture, Ohio State University, spring and fall terms, 1895. Present position since 1895.

HERBERT JAMES NOYES..... Richland City, Wisconsin

Assistant Professor of Dairy Husbandry

President, National Butter and Cheese Makers' Association, 1891; Chief Instructor, Wisconsin Dairy School, 1892-'94; Instructor, Wisconsin Dairymen's Association, 1894. Present position since 1895.

FREDERICK CONVERSE CLARK..... 15th and Indianola avenues

Assistant Professor of Economics and Sociology

A. B., University of Michigan, 1887; A. M., University of Michigan, 1888; Ph. D., University of Michigan, 1891. Student at Halle and Berlin, 1893-'95; Instructor in History and Economics, Ann Arbor High School, 1888-'92; Assistant Professor of Political Economy, Stanford University, 1892-'93. Present position since 1895.

HERMAN VANDENBURG AMES..... 84 Fifteenth avenue

Assistant Professor of History

A. B., Amherst College, 1888; A. M., Harvard, 1890; Ph. D. Harvard, 1891. Student in History and Political Science, School of Political Science, Columbia, 1888-'89, and at Harvard University 1889-'91. Fellow in Constitutional Law, Harvard, 1890-'91; Instructor in History, University of Michigan, 1891-'93; Acting Assistant Professor of History, University of Michigan, 1893-'94; Student at Universities of Leipzig and Heidelberg, 1894-'95; present position since September, 1896

*Absent on leave, 1896-'97.

JAMES ELLSWORTH BOYD.....25 Maynard avenue.

Assistant Professor of Physics

B. Sc., Ohio State University, 1891; M. Sc., Cornell, 1896. Student in Physics and Mathematics, Ohio State University, 1893-'95; Student in Experimental and Theoretical Physics, Cornell, 1895-'96; also student in Sibley College of Mechanic Arts, Cornell, summer of 1895. Assistant in Physics, Ohio State University, 1891-'95; held scholarship in Physics, Cornell, 1895. Present position since September, 1895

*JOSEPH RUSSELL TAYLOR

Assistant in Rhetoric

B. A., Ohio State University, 1887. Taught in Township Schools, Madison County, Ohio, 1887-'88; Assistant in Drawing, Ohio State University, 1889-'94. Student, English, Columbia, 1896-'97. Present position since 1894

CHARLES LINCOLN ARNOLD.....239 West Tenth avenue

Assistant in Mathematics

B. Sc., Ohio State University, 1890; M. Sc., Ohio State University, 1894. Post-graduate Student, University of Chicago and Ohio State University, 1894-'95. Present position since 1890.

CHARLES BRADFIELD MORREY.....146 King avenue.

Assistant in Anatomy and Physiology

B. A., Ohio State University, 1890; Post-graduate Student, Ohio State University, 1890-'91; M. D., Starling Medical College, 1896. Assistant in Latin, Ohio State University, 1890-'92; Assistant in Physiology, Ohio State University, 1892-'95. Present position since 1895.

CLAIR ALBERT DYE.....169 King avenue

Assistant in Pharmacy

G. Ph., Ohio State University, 1891. Post-graduate student in Chemistry and Pharmacy, Ohio State University; Assistant in Chemistry and Pharmacy, 1890-'94. Present position since 1894.

THOMAS EWING FRENCH.....1458 Worthington street

Assistant in Drawing

M. E., Ohio State University, 1895. Assistant in Drawing Department three years preceding graduation; Draftsman, The Smith-Valle Company, Dayton, 1888-'90; Instructor in Mechanical Drawing, Y. M. C. A., Dayton, 1888-'91; Chief Draftsman, The Smith-Valle Company, Dayton, 1891. Present position since 1891.

CHARLES WILLIAM WEICK.....134 West Eighth avenue

Assistant in the Industrial Department and Foreman of the Carpenter and Pattern Shops

Present position since 1893.

WILLIAM ABNER KNIGHT.....206 West Lane avenue

Assistant in the Industrial Department and Foreman of the Machine Shops

Present position since 1893.

HARRIET TOWNSHEND.....53 West Eleventh avenue

Assistant Librarian

Present position since 1894.

KARL DALE SWARTZEL.....57 West Frambes avenue

Assistant in Mathematics

B. Sc., Ohio State University, 1893; M. Sc., Ohio State University, 1894. Fellow and Assistant in Mathematics, Ohio State University, 1894-'95. Present position since 1895.

THOMAS KENYON LEWIS.....68 East Seventh avenue

Assistant in Drawing

B. Sc., Ohio State University, 1894. Graduate Student, Ohio State University, 1894-'95. Present position since graduation.

*Absent on leave, 1896-'97.

CHARLES A. BRUCE.....234 West Tenth avenue

Assistant in French

B. A., Ohio State University, 1895. Student of French, Amherst, 1895. Present position since graduation.

JOHN ADAMS BOWNOCKER.....Clark Place and High street

Assistant in Geology

B. Sc., Ohio State University, 1889. M. Sc., Ohio State University, 1897. Principal of High School, Martin's Ferry, 1889-'92; Fellow in Geology, University of Chicago, 1892-'94. Graduate Scholar, Yale University, 1894-'95; Assistant Geological Survey of Ohio, 1892; Assistant, Geological Survey of New Jersey, 1893. Present position since 1895.

EDWIN MEAD WILCOX.....154 West Woodruff avenue

Assistant in Botany

B. Sc., Ohio State University, 1896. Present position since 1894.

FRANCIS LEROY LANDACRE.....70 West Tenth avenue

Assistant in Zoology and Entomology

B. A., Ohio State University, 1895. Present position since graduation.

JAMES STEWART HINE.....117 King avenue

Assistant in Entomology

B. Sc. (H. and F.) Ohio State University, 1893. Student in Entomology, Cornell, 1895. Present position since 1895.

HARRY MCFADDEN BALL.....663 North High street

Assistant in Veterinary Medicine

D. V. S., American Veterinary College, 1888. Present position since 1895.

WILLIAM FINLEY LAVERY.....1700 Neil avenue

Assistant in Veterinary Medicine

D. V. M., Ohio State University, 1890. Veterinary practitioner, 1892-'96. Present position since 1896.

MAUD DOROTHY JEFFREY.....65 West Eleventh avenue

Assistant Librarian

B. Ph., Ohio State University, 1895. Student of Library Economy, 1895-'96. Present position since September, 1896.

GERTRUDE STOWELL KELLCOTT.....1332 Highland street

Assistant Librarian

Student (irregular) Ohio State University, 1888-'95. Student of Library Economy, 1895-'96. Present position since November, 1896.

FRANK HAAS.....233 Eleventh avenue

Assistant in Metallurgy and Mineralogy

C. E., Ohio State University, 1895. E. M., Ohio State University, 1896. Present position since graduation.

WILLIAM LLOYD EVANS.....189 Jefferson avenue

First Assistant Director in the Department of Clay-Working and Ceramics

B. Sc., Ohio State University, 1892; M. Sc., Ohio State University, 1896. Assistant Chemist, American Encaustic Tiling Company, Zanesville, Ohio, 1892-'94. Graduate Student, Ohio State University, 1895. Fellow in Chemistry, Ohio State University, 1895-'96. Present position since 1896.

ARTHUR WINFRED HODGMAN.....164 West Ninth avenue

Assistant in Greek and Latin

A. B., Harvard, 1890; A. M., Harvard, 1893; Ph. D. (Classical Philology) Harvard, 1896. Student in Graduate School, Harvard, Classical Philology, 1892-'96. Instructor in Preparatory Schools, Quincy, Duxbury, Mass., 1890-'92. Present position since September, 1896.

CHRISTOPHER ELIAS SHERMAN.....244 Twentieth street

Assistant in Civil Engineering

C. E., Ohio State University, 1894. Engaged in Civil Engineering in Ohio, Tennessee, Virginia, North Carolina and Arizona for three years, during college course; also engaged in railroad, geological and governmental engineering work. Present position since September, 1896.

BERTHOLD AUGUST EISENLOHR.....103 West Eleventh avenue

Assistant in German

Student at Ohio State University (irregular) from February 1880-'85. Instructor in German and Assistant Director of Chorus Classes, Ft. Wayne Conservatory of Music, 1889; Teacher of German Nelsonville, Ohio; Teacher of German and Physics, Portsmouth, Ohio, High School, 1893-'95. Present position since September, 1896.

CHARLES CONRAAD SLEFFEL174 West First avenue

Assistant in Industrial Department and Foreman of the Forge Room

Sixteen years' experience in work-shops. Present position since September, 1896.

ALBERT EARL VINSON..... Neil and Tenth avenues

Assistant in Agricultural Chemistry

Instructor in Chemistry, Y. M. C. A., Dayton, Ohio, 1895. Present position since September, 1896.

CHARLES WILLIAM FOULK.....41 Eleventh avenue

Assistant in General Chemistry

B. A., Ohio State University, 1894. Present position since September, 1896.

WILLIAM LUCIUS GRAVES878 Dennison avenue

Assistant in Rhetoric

B. A., Ohio State University, 1893. Principal, High School, Coshocton, 1894-'95. Fellow, and Assistant in Rhetoric and English Language, Ohio State University, 1895-'96. Present position since 1896.

CHARLES WILLIAM BURKETT.....1556 Neil avenue

Assistant in Agriculture

B. Sc., (Ag.) Ohio State University, 1895. Foreman of State Farm, Ohio State University, 1895-'96. Present position since 1896.

WARREN KING MOOREHEAD.....1080 Madison avenue

Curator of the Archaeological Collection

Assistant, Smithsonian Institution, 1888-'89; Assistant in Anthropology, World's Fair, 1891-'93.

RAYMOND MOLLYNEAUX HUGHES.....135 King avenue

Fellow, and Laboratory Assistant in General Chemistry

B. A., Miami, 1893. Student of Chemistry, Chicago University, 1894; Student of Chemistry, Miami, 1894-'95; Teacher of Chemistry and Physics, High School, Hamilton, Ohio, 1893-'95. Present position since 1895.

FREDERICK EDWARD KESTER.....1473 Neil avenue

Fellow, and Laboratory Assistant in Physics

M. E. (in E. E.), Ohio State University, 1895. Present position since graduation.

EDWIN F. CODDINGTON169 Eleventh avenue

McMillin Fellow, and Assistant in Astronomy

C. E., Ohio State University, 1896. Student in special work in Astronomy at Emerson McMillin Observatory, summer of 1896. Present position since September, 1896.

ARLINGTON CORYLLE HARVEY.....King avenue and High street

Fellow, and Assistant in Rhetoric

B. Ph., Ohio State University, 1896. Student in Department of English and Rhetoric, Ohio State University. Present position since September, 1896.

CHANGES FOR 1897-'98

WITHDRAWN

Professor William T. Spear, Assistant Professor Herman V. Ames, Assistant Berthold A. Eisenlohr, Assistant H. M. Ball, Fellow and Assistant Edwin F. Coddington Fellow and Assistant Arlington C. Harvey, Assistant E. M. Wilcox, Fellow and Laboratory Assistant R. M. Hughes, Fellow and Laboratory Assistant H. M. Biebel.

APPOINTMENTS

PERLA G. BOWMAN.....141 West Eleventh avenue

Associate Professor of Domestic Science

Graduate of Toledo High School; Graduate of Toledo Manual Training School; Student at Wells College; Instructor in Toledo Manual Training School; Director of Domestic Science, Toledo Manual Training School; Special Student at Pratt Institute (Brooklyn), and the University of Michigan.

JOHN ALLEN SHAUCK.....Columbus Club: Supreme Court Room

Lecturer on Supreme Court Practice and Special Cases

B. A., Otterbein University; L. L. B., University of Michigan, 1867; A. M. Otterbein University, 1870; LL. D., Otterbein University, 1897; Judge of the Supreme Court of Ohio.

EDWARD M. VAN HARLINGEN.....1594 Niel avenue

Assistant in Anatomy and Physiology

B. Sc., Ohio State University, 1883. M. Sc., Ohio State University, 1897 Graduate Student Ohio State University, 1896-'97.

JOHN H. SCHAFFNER.....79 East Third avenue

Assistant in Botany

A. B., Baker University, Kansas, 1893; A. M., University of Michigan, 1894; M. S., Baker University, 1896. Student in Botany, Zoology and Geology, University of Michigan 1893-'95. Student in Botany and Paleo-Botany, University of Chicago, 1896-'97. Assistant in Botany, University of Michigan, 1894-'95. Professor of Natural Sciences, University of South Dakota, 1895-'96

CLARK WISSLER.....1355 North High street

Assistant in Philosophy and Pedagogy

B. A., Indiana University, 1897. Assistant in Philosophy, Indiana University, 1895-'97.

JAMES GRANT BOYD.....38 West Woodruff avenue

Fellow, and Assistant in Veterinary Medicine

D. V. M., Ohio State University, 1897.

CHARLES BYRON FREDERICKS.....Veterinary Hospital

Fellow, and Assistant in Veterinary Medicine

V. M. and S., Ontario Veterinary College, 1893. In practice since graduation.

HARRY WALDO KUHN.....221 West Eleventh avenue

Fellow, and Assistant in Mathematics

B. Sc., Ohio State University, 1897.

JOHN RUDOLPH SPURRIER.....224 West Franklin avenue

Fellow, and Laboratory Assistant in Electrical Engineering

E. E., Ohio State University, 1896. Fellow and Laboratory Assistant in Mechanical Engineering, Ohio State University, 1896-'97.

ROBERT FISCHER.....810 Franklin avenue

Fellow, and Laboratory Assistant in Chemistry

G. Ph., 1895, M. Ph., 1896, Ohio State University. Special Student in Chemistry, same institution, 1896-'97.

EDWARD THOMPSON WATSON.....166 West Ninth avenue

Fellow, and Laboratory Assistant in Chemistry

B. Sc., 1897, Ohio State University.

JOHN FERGUSON CUNNINGHAM.....Horticultural Hall

Fellow, and Laboratory Assistant in Horticulture and Forestry

B. Sc. (in Horticulture), 1897, Ohio State University.

JOHN HERBERT FOX.....199 West Eleventh avenue

Fellow, and Laboratory Assistant in Industrial Arts

M. E., 1897, Ohio State University.

HORACE JUDD.....22 West Woodruff avenue

Fellow, and Laboratory Assistant in Mechanical Engineering

M. E. 1897 Ohio State University.

CHANGES.

WILLIAM McPHERSON, JR.,	1896-'97—Associate Professor of General Chemistry 1897-'98—Professor of Chemistry
EMBURY ASBURY HITCHCOCK,	1896-'97—Assistant Professor of Experimental Engineering 1897-'98—Associate Professor of Experimental Engineering
FRANCIS CAREY CALDWELL.	1896-'97—Assistant Professor of Electrical Engineering 1897-'98—Associate Professor of Electrical Engineering
EDWARD BENTON KINKEAD.	1896-'97—Professor of the Law of Pleading and Practice, Torts, and of Criminal Law 1897-'98—Professor of Criminal Law, Torts, Pleading and Probate Practice
EMELIUS OVIATT RANDALL,	1896-'97—Professor of Commercial Law, and Study of Cases 1897-'98—Professor of Agency, Commercial Law and Partnership
PAUL JONES,	1896-'97—Professor of the Law of Contracts 1897-'98—Lecturer on Contracts
FAXON FRANKLIN DUANE ALBERY,	1896-'97—Professor of the Law of Insurance 1897-'98—Lecturer on the Law of Insurance
JAMES HENRY COLLINS,	1896-'97—Professor of Federal Practice 1897-'98—Lecturer on Federal Practice
JOSEPH RUSSEL TAYLOR,	1896-'97—Assistant in Rhetoric 1897-'98—Assistant Professor of Rhetoric and English Language
ARTHUR WINFRED HODGEMAN,	1896-'97—Assistant in Greek and Latin 1897-'98—Assistant Professor of the Classic Languages
FREDERICK EDWARD KESTER,	1896-'97—Fellow, and Laboratory Assistant in Physics 1897-'98—Assistant in Physics
JOHN RUDOLPH SPURRIER,	1896-'97—Fellow, and Laboratory Assistant in Mechanical Engineering 1897-'98—Fellow, and Laboratory Assistant in Electrical Engineering

Executive Department

JAMES H. CANFIELD.....	President
ALEXIS COPE.....	Secretary Board of Trustees, and Bursar
W. C. McCRACKEN.....	Chief Engineer
JEAN BLACKFORD	Executive Clerk
EDITH D. COCKINS.....	Registrar
MARY HOWELLS COPE	Clerk in Office of Board of Trustees
CHARLES LOWE.....	Assistant Engineer
WILLIAM STANDLEY	First Fireman
BENJAMIN LeBAY	Second Fireman
W. R. BEATTIE	Gardener and Florist
JAMES KELLEY	Lawnkeeper
PATRICK COTTINGHAM	Watchman
RAYMOND JESSE SEYMOUR....	Guide

JANITORS.

WILLIAM WHITESTINE.....	University Hall
WASHINGTON TOWNSELL	Orton Hall
F. B. BREWER.....	Chemical Hall
JOHN E. ADAMS	Hayes Hall
JOHN CONRAD	Horticultural Hall and Veterinary Hospital
J. B. PARKER.....	Botanical Hall
EDWARD D. STALTER	Observatory
G. A. FLICKENGER	Chapel

THE UNIVERSITY

Ohio State University

THE UNIVERSITY AND THE STATE

Under an act of Congress passed July 2, 1862, the State of Ohio received from the United States a large grant of the public lands for the purpose of establishing a "college where the leading objects shall be, without excluding other scientific and classical studies, and including military tactics, to teach such branches of learning as are related to agriculture and the mechanic arts, in such a manner as the legislatures of the states may respectively prescribe, in order to promote the liberal and practical education of the industrial classes in the several pursuits and professions of life." In accordance with this act, the Ohio State University was founded by the State as a public institution of learning. The governing body of the institution is a Board of Trustees, appointed by the Governor of the State for terms of seven years, as provided in the law organizing the University. The original endowment has been supplemented, and the objects of the University promoted, by a permanent annual grant from the United States, under an act of 1890, by special appropriations of the General Assembly; and in 1891, by a permanent annual grant from the State, which grant was doubled by the Legislature of 1896. In accordance with the spirit of the law under which it is organized, the University aims to furnish ample facilities for education in the liberal and industrial arts, the sciences and the languages, and for thorough technical and professional study of agriculture, engineering in its various departments, veterinary medicine, pharmacy and law. Through the aid which has been received from the United States and from the State it is enabled to offer its privileges, with a slight charge for incidental expenses, to all persons of either sex who are qualified for admission.

THE STATE SYSTEM OF EDUCATION

A State system of free, public education, worthy of the name, freely offers every opportunity and inducement to its entire school population to pass by systematic methods, easily apprehended by those who are to receive the benefits, in schools under popular control, from the lowest seat in the primary school to graduation by a university of high standing. It is not supposed that all pupils can or will accept these opportunities or respond to these inducements. But the highest welfare of the State demands that both opportunity and inducement shall be continually present, and that the broad and firm highway of sound training and of higher learning shall be opened freely to every child of the State.

The State system is naturally divided into three great sections. The first includes the rural or district schools, and the work done in the first eight grades of the city schools. To this is generally given the name of "the Grades." The second division includes the High Schools. The work of the third division is done by the University.

THE UNIVERSITY

This means that the University is practically the thirteenth, fourteenth, fifteenth and sixteenth grades of this State system of free public education. Its work is related to that of the High Schools precisely as their work is related to that of "the Grades." It ought to be quite as natural for a pupil to look forward from the High School to work in the University as to look forward from "the Grades" or the Rural Schools to work in the High Schools.

ORGANIZATION OF THE UNIVERSITY

The Ohio State University is divided into six colleges, as follows:

The College of Agriculture and Domestic Science consists of those departments represented in the courses leading to the degrees of Bachelor of Science in Agriculture, Bachelor of Science in Horticulture and Forestry and Bachelor of Science in Domestic Science; in the Short Course in Agriculture, in the Short Course in Domestic Science, and in the Course in Dairying.

The College of Arts, Philosophy and Science consists of those departments represented in the courses leading to the degrees of Bachelor of Arts, Bachelor of Philosophy, and Bachelor of Science; and in the Courses Preparatory to Law and to Journalism, and to Medicine.

The College of Engineering consists of those departments represented in the courses leading to the degrees of Civil Engineer, Engineer of Mines, Engineer of Mines in Ceramics, Mechanical Engineer, Mechanical Engineer in Electrical Engineering, Bachelor of Science in Industrial Arts, and Bachelor of Science in Chemistry (or Metallurgy); in the Course in Architecture, in the Short Course in Clay-working and Ceramics, and in the Short Course in Mining.

The College of Law consists of those departments represented in the course leading to the degree of Bachelor of Laws.

The College of Pharmacy consists of those departments represented in the courses leading to the degree of Bachelor of Science in Pharmacy, and in the Short Course in Pharmacy.

The College of Veterinary Medicine consists of those departments represented in the course leading to the degree of Doctor of Veterinary Medicine, and to a certificate of Veterinary Surgeon.

Each College is under the direction of its own Faculty, which has power to act in all matters pertaining to the work of students in that College.

LOCATION OF THE UNIVERSITY

The University is situated within the corporate limits of the City of Columbus, two miles north of the Union Depot, and about three miles from the State Capitol. The University grounds consist of three hundred and thirty acres, bounded east and west by High street and the Olentangy river, respectively. The western portion, about two hundred acres, is devoted to agricultural and horticultural purposes, and is under the management of the College of Agriculture and Domestic Science. The eastern portion is occupied by the principal University buildings, campus, athletic and drill grounds, a park-like meadow, and a few acres of primitive forest.

The grounds are laid out with care; are ornamented with trees, shrubs and flower beds; and are so managed as to illustrate the instruction in Botany, Horticulture, Forestry, Landscape Gardening and Floriculture.

The University may be reached by either the North High street or the Neil avenue electric cars. Those wishing to go to the principal buildings of the University or to the residences on the grounds should take a High street car going north. Those wishing to visit the Emerson McMillin Observatory, the Veterinary Hospital, Townshend Hall and Horticultural Hall, the Dormitories, or the athletic field, will find the Neil avenue cars more convenient.

BUILDINGS

UNIVERSITY HALL was completed in 1873. It is built of brick with stone trimmings. It is four stories high, exclusive of basement; two hundred and thirty-five feet long, and the central portion is one hundred and sixty feet wide. This building contains the Executive offices, the assembly room (seating twelve hundred persons), four halls for literary societies, the Y. M. C. A. and King's Daughters' room, study room, lunch room, and class rooms and laboratories for the Departments of English, French, German, Greek, History, Latin, Mathematics, Pedagogy, Political Science, Philosophy and Physics. An electric passenger elevator connects all floors.

MECHANICAL HALL was erected in 1879. The material is brick, and the dimensions ninety-three feet front and thirty-two in depth, with a wing eight feet in length and thirty-two feet in depth. It contains a room fitted up with cases for the care of models, instruments of precision, etc., and a room for instruction in laboratory mechanics and draughting. The remaining rooms contain the engines, hydraulic plant, testing machines, etc. The cost of the building and its equipment was about ten thousand dollars; but repeated additions have since been made.

BOTANICAL HALL was provided in 1883 by a State appropriation of fifteen thousand dollars. It is constructed of brick, and is fifty feet long by forty feet wide, with a large addition in the rear. The whole is two stories in height. The main room on the first floor is the lecture room of the Department of Botany. There are also an office, a storeroom, a dark room, a private laboratory, and a laboratory for Physiological Botany. On the second floor is the botanical museum, the main laboratory and the assistant's laboratory. Connected with this building is a large greenhouse and propagating house. The greenhouse is a useful aid in the work of instruction.

ELECTRICAL HALL was built in 1889. It is a two-story brick building, about seventy-five feet long and forty-five feet wide. Sixty feet of the first floor forms the dynamo room. The floor of this room is of asphalt, laid on a solid concrete foundation. On the second floor are a lecture and draughting room, thirty by forty feet, a photometric room, a library room, and office, stock and locker rooms. The building and its outfit are valued at about fifteen thousand dollars, of which ten thousand dollars was appropriated by the General Assembly, and the remainder has been presented by various electric companies, or purchased by the University.

CHEMICAL HALL was completed during the summer of 1890, and is now occupied by the Departments of Chemistry, Mining, Metallurgy, and Pharmacy. The building and contents have cost about sixty-two thousand dollars, which was appropriated by the State. It stands three hundred and twenty-five feet east of University Hall, and fronts the south. It is two stories in height, with a basement of about eleven feet. Its greatest length is one hundred and seventy-nine feet and its depth, between the extreme points, one hundred and thirty-two feet. The depth of the main portion, exclusive of the wings, varies from sixty-three to more than seventy feet. It is built of pressed brick laid in red mortar. At the entrance is a large loggia, and beyond this is a vestibule opening into the main hall.

The Department of Chemistry occupies the middle and western portion of the second floor. The main lecture room is thirty-seven by forty-two feet, and contains seating capacity for one hundred and fifty persons. The qualitative laboratory is about forty by fifty-eight feet, and contains desks for forty students. The quantitative laboratory contains desks for eighteen students. Besides these, there is a second lecture room accommodating forty persons, a room for the preparation of experiments, a balcony accessible both from the lecture room and the preparation room, two storerooms for supplies, a balance room, a room for working with foul gases, one for distilling water, one for spectroscopic work, one for rough work, one for books, a private laboratory, and an office.

The departments of Mining and of Metallurgy occupy the east end of the building. In the basement are the smelting furnaces, the assay laboratory, a room for rough work and storerooms for supplies. On the first floor is the lecture room of the professor of Metallurgy, twenty-five by twenty-six feet, with a seating capacity of forty; a laboratory with desks for sixteen students, a storeroom, a balance room, a private laboratory, and an office. On the second floor is the lecture room of the associate professor of Mine Engineering, a draughting room, a room for instruments and an office.

The department of Pharmacy occupies the first floor and basement in the west end of the building, and has a lecture room twenty-two feet by thirty-six, providing for sixty students; a preparation room, a laboratory with desks for twenty-five students, a room for supplies, a balance room, a model drug store and a private laboratory.

ORTON HALL. This building, completed at a cost of more than \$100,000, is designed for the permanent accommodation of the large geological collection of the University and for work and instruction in the Department of Geology. A portion of it is occupied by the library and reading room. The main front is about one hundred and fifty feet in length, and the extreme depth about one hundred and thirty feet. The building is two stories in height, with a high basement, is built of brick and faced with sandstone, and is fireproof throughout. Some of the material was contributed by various quarries of the State of Ohio, and almost all of the finer varieties of Ohio building stone are represented in the columns, walls and ceiling panels of the vestibule. At the right of the main entrance is the geological lecture room, and professor's private room; at the left is the University library, reading room and librarian's private room. The central and rear portion is occupied by the geological and paleontological museums. The petrographical laboratory is located on the second floor. In the basement a room is used for work in geographical modeling, the finished models being afterwards placed in the collection of such models in a room set apart for the purpose on the second floor. The basement accommodates also the museum of economic geology. A paleontological laboratory or working room is also provided on the second floor.

The greater part of the basement of Orton Hall is occupied as a laboratory by the Department of Clay-working and Ceramics. This department is also accommodated with a large room on the first floor for recitation and exhibition purposes. In the rear of Orton Hall is a small brick structure, used for the kilns of this Department.

The College of Law is (temporarily) provided with lecture rooms and library accommodations in Orton Hall.

HAYES HALL. This large building of pressed brick and brown sandstone was recently completed and equipped at a cost of about \$70,000. It is devoted to instruction in Industrial Arts, Drawing, Civil Engineering, Mechanical Engineering and Domestic Science. The entire front of the building is one hundred and sixty-eight feet, and the depth one hundred and forty-six feet, with two rear wings of one story thirty-six by forty-nine feet. The central portion is three stories high and the front wings are two stories each. On the first floor are two offices, the rooms of the department of Domestic Science, and two lecture rooms, besides the machine shop, the forge shop and the foundry. On the second floor are the carpenter and pattern shops and six large lecture rooms, with private rooms annexed.

The Department of Drawing occupies the third floor for instruction in mechanical and free-hand drawing and photography.

HORTICULTURAL HALL is a handsome two-story brick structure, fronting the campus from the west. It contains recitation rooms and indoor laboratories of the Department of Horticulture and Forestry. An extensive greenhouse is attached

THE VETERINARY HOSPITAL, contains on the first floor a veterinary museum and library, a dispensary, and two private rooms for the persons in charge. On the second floor are a class room, a bacteriological laboratory, and a microscopical laboratory. The rear extension contains an operating hall, thirty by thirty-three feet in size, and a room provided with stalls, cages, etc., for the care of animals under treatment.

THE EMERSON McMILLIN OBSERVATORY. This building and its equipment is the gift of Mr. Emerson McMillin, of Columbus, Ohio, and was built during the summer of 1895. The first floor is divided by a hall and stairway into two parts. The east wing contains an office, library, clock room and a large, well lighted room for the students, furnished with tables, where they reduce their observations and keep the records of their work. The west wing contains the transit house, the dome and photographic dark room. The transit house is a light frame structure, so designed as to be kept as free as possible from heat radiated by any heavy walls of masonry. The dome is a wooden frame-work covered on the outside with canvas. The rest of the building is of pressed brick, the foundations and second story being "rock-faced."

The equipment consists of a twelve-inch equatorial telescope, mounting by Messrs. Warner & Swasey, objective by Mr. Brashear, with a large and powerful spectroscope by Mr. Brashear. This instrument is adapted to use either one or two prisms or a grating, and is provided with a double set of objectives, one corrected for the visual and one for the photographic rays; a positive micrometer with a seven-inch circle by Messrs. Warner & Swasey; a combined zenith telescope and transit instrument of three inches clear aperture by Mr. G. N. Saegmuller; a sidereal clock by Clemens Riefle, of Munich; a comparater by Carl Ziliss; a four-inch portable equatorial by Alvan Clark; a chronograph by Warner & Swasey; sextants, chronometers, meteorological instruments, etc. In addition to the above, Mr. McMillin's gift provides for an excellent astronomical library.

TOWNSHEND HALL. This building is two hundred and sixty feet long, and varies in width from sixty-four feet to seventy-eight feet. It consists of two stories, and a basement which is fourteen feet high. The walls above the basement line are of gray pressed brick. The basement walls are of cut stone, and the trimmings are of terra cotta of the same color as the brick. The roof is covered with cherry-red tile. The building is of slow-burning construction throughout, with painted interior brick walls, exposed beams, maple floors, and hard pine finish.

Throughout the Dairy Department, which has about six thousand square feet floor space, the floors are of tile and the walls are wainscoted with white enameled brick.

On the left of the entrance, which is twenty-eight feet wide, is the office of the Department of Agriculture, and a private office, a stenographer's room and fire-proof vault. Connected with the office on the south is an assistant's room, opening into a laboratory for advanced students. At the extreme south end of this floor is a large laboratory for student-work in soils and farm crops. Connected with this laboratory is a balance room, a storeroom, and an instructor's laboratory. On the west side of the main corridor, and connected with the instructor's room, is a large class room opening into a preparation room with a dark room. This class room is fitted with all appliances for showing lantern slides of live stock, buildings, machinery, etc. On the same side of the corridor, and on the right of the stairway leading to the basement and second floor, are the class room and instructor's room for dairying. On the right of the main entrance is the department reading room. The north end of this floor is occupied by the museum (which is fifty-four feet by sixty-seven feet) with an attendant's room. The north end of the high basement is

occupied by the dairy department. This consists of a receiving room, a pasteurizing room, a storeroom, a refrigerator room, a lavatory, butter-making room, cheese-making room, two cheese-curing rooms, and an instructor's room.

In the south end of this floor is a live stock room about forty feet square. One-third of this room is occupied by raised seats, the remaining floor space being used for exhibiting and judging live stock. Connected with this is a room fitted with stalls for the temporary accommodation of live stock when needed for class exercises. The basement also contains soil storage room, bathroom, toilet rooms, repair shop, locker rooms, bicycle room and janitor's room. A small detached building will furnish steam and power for the dairy department. Detached from the main building, but connected with the soil storage room by a tramway, is a glass house thirty feet by forty feet, for the study of soils and the experimental growth of plants.

The north end of the second story contains a large student laboratory for the department of Agricultural Chemistry, connected with an organic and analysis laboratory, a balance room, a storeroom, and a private laboratory. The lecture room of this department is at the south end of this floor and will seat one hundred and sixty students on raised seats, with a preparation room adjoining. There is also on this floor a class room connecting with preparation room, storeroom, and instructor's room, which is used (temporarily) by the department of Veterinary Medicine. There is also an extra class room, ladies' toilet and locker rooms, and a hall for the use of the Townshend Society, designed to seat about two hundred persons.

BIOLOGICAL HALL. This building is designed for the special accommodation of the departments of Entomology, Zoology, Anatomy and Physiology, and is fully equipped with all the latest and best apparatus for this work. It consists of a basement, in which is done all the work of preparation of subjects for the lecture tables and for the special laboratory work of the advanced students; the first floor, on which are lecture rooms, general and special laboratories, and private work rooms for the professor of Entomology and Zoology and his assistants; the second floor, similarly arranged for the work in Anatomy and Physiology; and a large wing, in which is the museum and a large lecture room. The building is fireproof throughout; and in design and general appearance is one of the most attractive on the campus.

THE GYMNASIUM AND ARMORY. This beautiful building will be finished about the first of January. The drill hall and gymnasium floor is eighty feet wide by one hundred and fifty feet long. The roof is carried on curved steel arches, lighted from a clear story at the top. There is a running track around the entire room, about twelve feet from the floor, back of which is a visitors' gallery, seating about twelve hundred persons. At the northwest corner of the floor is a stairway leading down to the men's locker and dressing room, while the young women go down a similar way at the southeast corner, to their rooms. On the level with the main floor, near the main entrance at the south, is a large room for the use of the Commandant and his classes, and rooms for the director of the Gymnasium. Above the Commandant's room is the room for the officers of the University Cadet corps.

The basement is very high and well lighted. On the young men's side are dressing and locker rooms, the bathroom with shower and plunge baths, a bicycle room, a lecture room, the cannon room, the band room, and a large room which is to be the home of the University athletic association. On the young women's side are the locker rooms and bathrooms—precisely like those provided for the young men—a bicycle room, lecture room, and private office for the instructor in sanitation and hygiene for young women.

THE NORTH DORMITORY is situated at the northern limit of Neil avenue, and fronts Eleventh avenue. It is at the terminus of the Neil avenue electric car line.

It is a plain structure of brick, and affords accommodation for sixty-four students.

THE SOUTH DORMITORY stands near Neil avenue within a few rods of the North Dormitory. It is also built of brick, and contains rooms for twenty students.

RESIDENCES. There are seven dwelling houses upon the University campus. Five of these are brick and two are frame structures. One is occupied by the President of the University, five by professors, and the seventh is the farm house.

LABORATORIES AND EQUIPMENT

AGRICULTURE

The equipment of this Department may be divided along three general lines: the plant, the museum and the illustrative materials.

THE PLANT. This consists of a farm of about two hundred acres, a general farm barn, a horse barn, and several smaller buildings. The farm lies along the Olentangy river, and includes both first and second bottom land. On this farm are grown general farm crops in the rotation deemed best suited to the circumstances of the Department. At present a few experiments are conducted, the general idea being to conduct such experiments as will have the largest instructional value to the students who attend the College of Agriculture. The Ohio Agricultural Experiment Station continues to conduct here the elaborate fertilizer experiments with wheat, corn and oats, which it has been making on this farm during the past five years. Different species and varieties of farm crops are grown to some extent for the purpose of class illustration and instruction, and it is expected to enlarge this feature.

Specimens of the draft, coach and roadster type of horses are kept and used in the farm work. The Department manages a milk dairy; having a herd of about forty cows, composed of pure bred and grade Jerseys and shorthorns.

The general farm barn contains a well arranged stable for forty cows, with underground drainage and sewage cistern, a milk cooling room, a silo, a root cellar a workshop; with room for hay, grain and other foodstuffs.

THE MUSEUM. This contains a large number of samples of farm products in various forms and their by-products, such as soils, grains, grasses, wools, cotton forage plants and foodstuff. Milling and other processes are illustrated by samples of the various products of manufacture.

The museum contains Auzoux models, samples of tools and a considerable miscellaneous collection. The collections are intended primarily for student use and not for display.

ILLUSTRATIVE MATERIALS. These consist of charts, pictures and lantern slides showing results of experiments, representative and noted specimens of live stock, farm machinery, fences, buildings, etc. The Department has and uses constantly in the class room a Beseler double oxygen-ether stereopticon. The collection of several hundred lantern slides for this purpose is constantly receiving additions.

THE AGRICULTURAL LIBRARY. While not considered as belonging specifically to this Department, there is in the general library a fairly good collection of books and periodicals devoted to agriculture, a large use of which is required of the student.

THE LABORATORY OF SOIL, PHYSICS is located on the second floor of Horticultural Hall, and is supplied with apparatus for the mechanical analysis of soils and for testing their physical properties. (*See also BUILDINGS, Townshend Hall.*)

BOTANY

The general Botanical Laboratory occupies a part of the second floor of Botanical Hall. It is 23 x 33 feet, and is furnished with both movable and fixed tables. The latter are attached to the west and south walls near windows suitably shaded. Water,

gas and an evaporating hood are also provided. The laboratory is equipped with compound microscopes of the Baush and Lomb, the Leitz and other patterns; and accompanying each is a tray of tools and a case of reagents. There are more than fifty dissecting microscopes, also charts, and several minor pieces of apparatus for experiments in vegetable physiology. Three smaller rooms are also provided as laboratories for special work, as well as a dark room for photography. Other facilities for the illustration of the courses in botany, and for practical training in the same, are: A general herbarium, including flowering plants, ferns, mosses, fungi and algae; a state herbarium, a collection of fruits and seeds, valuable timbers, woods, grasses, and various economic products of the vegetable kingdom; ornamental grounds and woodland, planted with a large variety of evergreen and deciduous trees and shrubs; and a greenhouse with a fair collection of native and exotic plants. (See also MUSEUMS—*The Botanical Museum*; and BUILDINGS—*Botanical Hall*.)

CHEMISTRY

The laboratories of the Department accommodate two hundred and twenty-five students. The general lecture room is large and well lighted, and all needed facilities are provided for the full experimental illustration of the lecture courses. The Department is generously supplied with the best apparatus and materials for both lecture and laboratory work, and has also a growing collection of specimens illustrating the application of chemistry to the arts. (See also BUILDINGS—*Chemical Hall*.)

CIVIL ENGINEERING

The facilities provided for the illustration of the courses in civil engineering and for practical training are as follows: One high grade and three ordinary transits, four leveling instruments, solar compass, prismatic compass, improved telescope compass, Abney hand level, level and stadia rods, sight poles, chains, tapes; large Ritchie-Haskell current meter; twenty-six improved drawing tables with 30" by 36" top; Schroeder's models in stereotomy of roof trusses; large set of models of wooden joints; collection of photographs of bridges, both when finished and in course of erection; collections of strain sheets and shop drawings of bridges; new improved cement testing machine and outfit for making all kinds of cement tests; stone mason tools for working models out of plaster blocks; magic lantern and slides; collections of samples of building materials; calculating machines; sets of drawing instruments; blue print room with outfit; set of tracings of standard structures from which each student may make a set of blue prints. The equipment is growing each year by the addition of materials purchased, presented, or made by students of the Department.

CLAY-WORKING AND CERAMICS

The University is the first, and at this time the only institution in the United States offering special facilities for the study of clays, clay-working, and the chemical technology of the ceramic art. The facilities of the Department comprise: 1st. A convenient chemical laboratory, specially designed and equipped for the analysis and decomposition of silicates. Provision has been made for the use of hydrofluoric acid with safety, and the platinum ware has been made to order with this purpose in view. 2d. A complete mechanical outfit for the preparation of clays for pottery manufacture and the production of the ware itself, of any grade from earthen wares to porcelain. The machinery is of the latest types and comprises all important varieties in use for grinding, tempering, washing, filtering and molding. 3d. A similar plant for the manufacture of brick, tiles, pipes and hollow goods. The machinery here is of full size and samples up to a ton in weight can be received and trans-

formed into the finished articles by any or all of the standard methods in commercial use. The power for this purpose is derived from a fine electric motor, driven from the University power plant. 4th. A kiln house, equipped with a kiln in which several hundred bricks, or an equivalent quantity of sewer-pipe, stoneware, or pottery can be burnt. The fuel is intended to be coke, except in special cases where the fuel available for burning clay wares is to be made the subject of test. There is also provided a crucible melting furnace and a muffle furnace for testing glazes. A muffle kiln of large size for burning pottery, glazed ware and decorated wares will probably be added in the near future. 5th. A ceramic museum, containing a fine collection of American pottery and clay products of every class, is in process of installation. 6th. A library of the best literature on the subject, mainly German but containing a few English and French works, and the trade periodicals. (See also BUILDINGS—*Orton Hall*.)

DOMESTIC SCIENCE

The Department of Domestic Science (for young women) has been equipped for the first year's work only, but will secure for the course of each year all that experience and observation may suggest. At present it has a large kitchen, with dining room adjoining, each fitted with the latest and best appliances for the work undertaken. About a thousand dollars has been expended to make this department entirely practical, and to permit its instruction to be as thorough and as scientific as that of any other department in the University.

DRAWING

The Department occupies the entire third floor of Hayes Hall, and is provided with the following equipment for the illustration of the work in drawing and for practical training in the same; For freehand drawing: Flat and shaded copies in pen, pencil and charcoal; wooden models of geometric forms; plaster casts of ornaments, flowers, fruit and the antique; easels and drawing tables; a well selected line of work from artists of recognized ability. For mechanical drawing: O. S. U. improved drawing tables (30" x 36" tops), a set of the celebrated Schroeder models, a collection of shop drawings and facilities for blue printing. For photography: A well arranged and equipped dark room, printing outfits, copying camera, four view cameras, lenses of long and short focus, flash lamp and shutter for instantaneous photography. In addition to the above, the library contains a well chosen collection of books pertaining to the work of the Department. (See also BUILDINGS—*Hayes Hall*.)

ELECTRICAL ENGINEERING

The Electrical Laboratory affords very good facilities for practical experimental work with dynamo machinery and other electrical apparatus. Machines of various patterns and including direct and alternating, single and multi-phase, incandescent and arc lighting and stationary and railway motors, aggregating about two hundred horse power, are at the disposal of the students. Besides these there are transformers of several makes, arc lamps, a storage battery of 10 kilowatt-hour capacity, welding apparatus, Prony brakes, etc. Photometry is given at present in the Physical Laboratory. Power is supplied by three 2-phase motors giving in all seventy horse power and run from the University Power Plant. For measurements there are a goodly supply of instruments, both A. C. & D. C., the latter mostly Westons. It is the aim of the Department to give a thorough working knowledge, made practical by constant applications of the laws underlying Electrical Engineering; and incidentally, familiarity with the machinery and

apparatus. In addition to the Electrical Laboratory proper, there is the University Power Plant, with a generating capacity of 180 kilowatts, which runs incandescent and arc lighting and motors at various points on the campus. This plant is a model one, and of great value to the students. Most of the installation work has been done by paid student labor, and there is often opportunity for doing work of this sort. Columbus and neighboring towns have many electrical plants, and students are always welcome to study them.

GEOLOGY

The University is able to present unusual advantages for the study of geology. By an act of the Legislature it has been put in possession of all the collections made by the late geological survey, and these collections have been supplemented by valuable additions of fossils and minerals from various sources. The State collection embraces a very complete representation of every geological formation shown in Ohio. In its new and ample quarters the Department offers exceptionally good opportunities for work in the lithological, petrographical and modeling laboratories. (See also MUSEUMS—*the Geological Museum*; and BUILDINGS—*Orton Hall*.)

HORTICULTURE AND FORESTRY

Among the facilities provided for the illustration of the courses in horticulture, and for practical training in the same, are: (1) a collection of horticultural tools for budding, grafting, pruning, etc.; (2) an orchard, containing well selected varieties of the apple, pear, cherry, plum and quince; (3) a small vineyard, containing numerous varieties of the grape; (4) a garden of small fruits, containing all the best varieties of the strawberry, raspberry, blackberry, current and gooseberry; (5) a vegetable garden with forcing houses, cold frames, experimental plats, conveniences for irrigation, etc.; (6) small nursery and forest tree plantations, with practice rows of budding, grafting, pruning and training; (7) ornamental grounds and woodland, planted with a large variety of evergreen and deciduous trees and shrubs; (8) a greenhouse, with a fair collection of native and exotic plants; (9) a collection of preserved natural specimens, and models of fruits, seeds, woods, etc.; (10) a laboratory fairly well equipped with balances, charts and other appliances for study and research. (See also MUSEUMS—*The Botanical Museum*—and BUILDINGS—*Horticultural Hall*.)

MECHANICAL ENGINEERING

The greater portion of Mechanical Hall is devoted to laboratory purposes. One room is reserved as computing room and for class work in Mechanism; another room is used as an Engineering Museum and Instrument Room for the collection of kinematic models of engineering materials, of instruments for measuring and testing purposes, and a large collection of photographs presented by some of the leading manufacturers of the country. The laboratory embraces appliances, etc., and a very complete equipment for hydraulic testing.

Among the appliances are a Thurston railroad oil testing machine; an Olsen Automatic and Autographic testing machine for tensile, compressive, shearing and transverse tests of 100,000 lbs. capacity; a Riehle 42,000 lbs. tensile and compressive testing machine; an Olsen torsive testing machine; a Robinson transmission dynamometer; Prony and rope absorption dynamometers; indicators of five different makes, with drum and cylinder spring testing apparatus; a set of Westinghouse air brake apparatus; ventilating fan; power blower; a seven horse power Otto gas engine, and one hundred horse power Buckeye engine; a pair of steam engines of twenty and thirty horse power respectively, connected to a Wheeler surface condenser and a Blake air pump, and so arranged as to work duplex, compound, condens-

ing or non-condensing; five steam separators and four injectors, and means of testing same; steam and coal calorimeters; apparatus for testing steam-pipe covering for insulation and durability. All of the engines are fitted up for indicator work. In the boiler house are 600 horse power of Babcock and Wilcox Co.'s boilers, fitted with Murphy and chain grates, and a thirty horse power return tubular boiler; which serve for experiments on boilers. The equipment for hydraulic testing consists of a two-foot standpipe for three hundred feet of head; Leffel turbine and Cascade water wheels; a Pelton water wheel, a Rife's hydraulic engine; Gem & Eureka water motors; a pulsometer; a forty horse power centrifugal pump; Davidson & Blakeslee feed pumps and Laidlaw-Dunn-Gordon boiler feed and fire pumps, the last of 48,000 gallons per hour capacity; Ericsson and Rider hot-air pumping engines; two water bays of twenty-five hundred gallons capacity each; weirs, orifices, nozzles and weighing tanks.

Those who have generously contributed to the equipment of the laboratory during the past year are: The Bishop & Babcock Company, Joseph Edwards & Company, National Tube Works, Buckeye Engine Company, Hugo Bilgrim, Hancock Inspirator Company, Dodge Manufacturing Company, North America Metaline Company; and others, in the way of photographs and blue prints.

The mechanical laboratory virtually embraces much more than that mentioned above, as there are steam and gas transmission pipes in tunnels for service with the various buildings of the institution, fitted with attachments for conducting experimental tests.

Trips are made also to the manufacturing establishments of the city, where numerous steam and other plants are available for expert testing. (See also BUILDINGS—*Mechanical Hall*.)

METALLURGY AND MINE ENGINEERING

The draughting room is large, well lighted and provided with a desk for each student. A workshop in the attic is fitted with tools for making models, and for experiments in ventilation. The metallurgical laboratory has all the appliances for the most modern methods of technical analysis as practiced in iron and steel laboratories, including gas analysis. A furnace room in the basement is fitted for gold and silver assaying, with improved muffle and crucible furnaces.

The lecture room in metallurgy has arrangements for projecting photographs of machines, mines and furnaces, for class illustration, and there is a large collection of such views. There is a photographic room with blue printing facilities, where students learn to make copies of the drawings used in illustrating the lectures.

A collection of minerals and rocks with a large set of rock sections is provided for illustrating the mineralogy, as well as sets of blow-pipe apparatus for students in determinative mineralogy. (See also BUILDINGS—*Chemical Hall*; and MUSEUMS—*The Geological Museum*.)

PHARMACY

The facilities provided for illustration of this work and for practical training are as follows: The apartments assigned to this work occupy the west end of the Chemical Hall, first floor and basement. The lecture room will accommodate sixty students, and is provided with a large lecture table and supplied with gas and water, and other conveniences for experiment. About the walls are arranged cases in which are exhibited rare and costly chemicals, curious drugs, and high-grade pharmaceuticals. Adjoining this room is the preparation room and storeroom, where the supplies and apparatus and material are kept, and where the apparatus for experiment and illustration before classes is prepared. Also adjoining this room is the professor's private laboratory. The main laboratory has desks for thirty-five stu-

dents, each one provided with gas and water, and sufficient storage space for material and apparatus. The laboratory is furnished with apparatus for distilling and reclaiming, with mills, balances, drying closets, steam, vaporizers, hoods and other special apparatus for pharmaceutical work. Opening into the laboratory is the drug store. This drug store is complete, and is in itself a cabinet of official drugs, and all preparations thereof. It is provided with a prescription desk and all apparatus adapted for training in prescription work. Adjoining the laboratory is the reading room, where are kept the various pharmaceutical journals, the dispensaries, and many books of reference. Also adjoining the main laboratory is the balance room, which is well provided with analytical balances, specific gravity balances and microscope, all of which are intended for higher pharmaceutical work.

In the reading room is also a cabinet of crude drugs, which have been classified and numbered but bear no name. This cabinet is adapted to the study of pharmacognosy.

In addition to the foregoing equipment, the Department is possessed of an extensive range of apparatus, by means of which any branch of work in pharmacy can be successfully pursued. The Department is complete in all its details, and affords unexcelled opportunity for the study of pharmacy. (See also BUILDINGS—*Chemical Hall*.)

PHYSICS

The Department has an excellent equipment of apparatus, to which additions are constantly being made. The apparatus includes a large collection of pieces for illustration of the general lecture room work, but is principally chosen for accurate measurement in the laboratory. A set of standards of length, capacity and mass, sent under the act of Congress supplying such sets to the several agricultural colleges, is in the possession of the Department. The pieces are copies of the United States standards made by the Coast Survey at Washington.

Among the principal pieces of apparatus are a dividing machine by Fauth & Co.; chronometers by Parkinson & Frodsham and by Negus, the latter a break-circuit; a chronograph by Fauth & Co.; a Hipp's chronoscope; cathetometers by Salleron and by the Geneva Society, the latter an exceptionally fine instrument; Regnault's apparatus for vapor tension, for expansion of gases and for specific heat; Melloni-Tyndall apparatus for radiant heat; standard thermometers by Baudin and others; Rutherford and Rowland, diffraction gratings; Rowland's spectrum photographs; spectroscopes by Brashear, Browning, Apps and others; Salleron's complete apparatus for projections in polarized light; lanterns for projections by the lime light and the arc light; a variety of sound apparatus from Koenig; portable and quadrant electrometers; Kelvin galvanometers of high and low resistance; Weidemann, Kohlrausch and other galvanometers; standard resistance coils, with Cavanish laboratory certificate; several sets of resistance coils and bridges; a Kew magnetometer; Kelvin standard balances; Weston ammeters and voltmeters; standards of self-induction; standard battery cells; photometric standards and photometers; X-ray apparatus, etc.

Under the laws of Ohio, the professor of physics is *ex officio* State Sealer of Weights and Measures, and all of the standard weights, measures and balances received from the United States government are in the rooms of the Department.

PHYSIOLOGY

The facilities provided for the study of anatomy, bacteriology, histology and physiology are excellent. The laboratory is supplied with skeletons, papier-mache manikin, and many models, including models of the eye, ear, larynx, etc. The apparatus of the Department for work in bacteriology and physiology is of the best and most approved construction, and is adapted to the accurate investigation of bacterial forms, as well as to the thorough performance of the fundamental physiological ex-

periments. Myographs, spectrosopes, microscopes and the necessary chemical outfit are also provided. For work in histology the equipment includes twenty-four individual tables for student experiments, each table being supplied with a good microscope, microscopical accessories, microscopical reagents; and for advanced work, the needed apparatus for instruction in the various methods of hardening, staining, imbedding, section-cutting and injection. The laboratory also has excellent microtomes, imbedding baths and other essentials of a histological outfit. The equipment of the laboratory makes it possible to offer a large range of work for the choice of students in advanced courses. See also BUILDINGS—*Biological Hall*.

SHOPWORK

The shops, which occupy the north wing of Hayes Hall, afford excellent facilities for instruction in both the practical details and the underlying principles of carpentry, pattern-making, forging, moulding, foundry work and machine work.

The carpenter and pattern shop is equipped with twenty-five benches with complete sets of carpenter tools for each and a large number of special tools for general use, twenty-three pattern-makers' turning lathes with cupboards containing the necessary turning and pattern-making tools under each, a pony planer, a buzz-planer, a circular rip and cross cut-saw, a scroll saw, a trimmer and a power grindstone.

The forge shop is equipped with twenty stationary forges with anvils and tools for each, a heating forge, a portable hand forge, a foot-power hammer, a blacksmith's drill and a punch, shear and bar cutter. The blast for the forges is furnished through under ground piping by a 45" Buffalo pressure blower, and the smoke is removed by a 55" Buffalo exhaust fan overhead. Both of these fans are driven by a 15 horse-power electric motor.

The foundry is equipped with a 24" Calliau cupola, the blast for which is furnished by a 30" Buffalo blower; two brass furnaces, one 16 inches in diameter and the other 20 inches in diameter; a core oven, benches for iron and brass moulding, core-making and cleaning of castings, a space for floor moulding 30 feet by 40 feet, besides all the necessary moulding tools, flasks, crucibles, ladles, tongs, etc.

The machine shop is driven by a 30 horse power electric motor from above, and is equipped with the following tools: Twenty-eight benches for vise work with complete sets of tools, eight speed lathes, sixteen engine lathes, two planers, two shapers, a milling machine, an upright drill, a sensitive drill, grinding machines for both plane and cylindrical surfaces, tool grinders, emery wheels, etc. This machinery is furnished with all the necessary tools, and the tool room is equipped with full sets of drills, taps, dies, milling cutters, standard plugs, gauges, threads, etc., micrometers and a great variety of special tools. See also BUILDINGS—*Hayes Hall*.

VETERINARY MEDICINE

The Veterinary Hospital affords excellent facilities for the treatment and care of animal patients, and also gives the students the opportunity to become practically familiar with the diseases to which our domesticated animals are subject. It contains box-stalls, stalls for cold-water applications, a large and well lighted operating hall and a special ward for dogs. The front part of the Hospital contains a lecture room, a museum of anatomical and pathological preparations, a drug dispensary and an office. In the museum are skeletons of the horse and ox, a complete manikin of the horse, papier-mache models of various anatomical parts, pathological specimens preserved in alcohol, etc.

In the library are choice collections of works in veterinary medicine and allied sciences and also copies of the leading veterinary periodicals.

The College is well equipped for surgical work. Instruments of the latest and most approved makes are kept in the instrument room for use in operations.

In the daily clinics not only are horses and dogs represented, but also the meat-producing animals from the farm, near the College.

The bacteriological laboratory in the biological department is supplied with apparatus of the most modern and improved construction, the microscopic appliances being adapted to the most accurate work in bacteriology. (See also BUILDINGS—*The Veterinary Hospital, Biological Hall.*)

ZOOLOGY AND ENTOMOLOGY

The outfit of the Department is ample, consisting of general zoological collections, an entomological collection, a series of skeletons, alcoholic specimens, and all needed instruments. (See also MUSEUMS—*The Zoological Museum, The Lake Laboratory, Biological Hall.*)

THE LAKE LABORATORY

There has been established at Sandusky a summer laboratory for the purpose of investigations of biological problems in the great lakes. It is located at the present site of the State Fish Hatchery in the east bay of Sandusky. The site is chosen with especial reference to its convenience, the sheltered waters of the bay, the proximity of the fish packing establishments, and the ready access to the islands and open lake. The laboratory affords a rare opportunity for instructors and students to spend the summer vacation at practical biology in a most agreeable and profitable way. The facilities offered are free to students of any branch of biology. The chief work for the first season related to the food and enemies of the fishes of the lake.

THE MUSEUMS

THE GEOLOGICAL MUSEUM of the University has been collected and arranged with reference to instruction rather than to display. The basis of it is a large and comprehensive collection of the rocks, fossils and economic minerals of Ohio. The collection embraces the following named series:

(a.) An excellent representation of the leading divisions of the geological scale of the State, so far as it can be illustrated by rock specimens. The specimens represent the leading phases of each formation, and in many cases carry the characteristic fossils of the horizons from which they are derived.

(b.) A collection of the animal and vegetable fossils of the rocks of Ohio. This series includes a large majority of the described fossils of our formation, and in the number are many type specimens. While all the ages of our geological history are well represented, the collection of the Upper Silurian and Devonian animal fossils is particularly rich and complete. A remarkably fine series of coal plants is also included in the museum. The list of fossils has been greatly extended in the number of species and individuals by the recent purchase of the collection of Mr. Henry Moores, of Columbus.

(c.) The economic minerals of the State are also shown to excellent advantage in the museum. The coals, petroleums, iron ores, clay and building stones produced in Ohio are represented in large collections. Many of the specimens upon which chemical examinations or physical tests have been based in the work of the geological survey of the State are included here.

(d.) Petrographical collections: These collections were selected with a view to their use in petrographical instruction, and embrace the Hawes collection, the Krantz collection and the Rosenbusch complete series of typical rock specimens from important centers abroad. These hand specimens are supplemented by two

series of thin sections, including Voigt and Hochgesang's collections of typical rocks and of the petrographically important minerals.

In addition to the collections above described, the museum contains a great deal of valuable material in the line of general geology and mineralogy. Among other things it includes several valuable suites of ores and many fine mineral specimens.

There also belong to the museum a number of geological casts, models and maps. In this series are included a relief map of the State of Ohio, and also the models of the basins of the Atlantic ocean and Caribbean sea, prepared under the supervision of the United States Coast and Geodetic Survey.

The catalogue of the museum contains more than 10,000 entries; but as only one number is as a rule given to a fossil or a mineral species, the individual specimens make an aggregate list of many thousands in addition to the catalogue list, and probably double this list.

The skeleton of a mastodon, one of the extinct elephants of Ohio, has recently been presented to the museum by N. S. Conway, of Catawba, O., on whose farm it was found. It has been mounted by Prof. H. A. Ward, of Rochester, N. Y., and proves to be one of the largest in the country.

The museum also has a mounted skeleton of *Megalonyx jeffersonii*, one of the great ground sloths. This specimen has the distinction of being the first and thus far the only mounted skeleton of this animal in the world. The bones were discovered by Abraham Drushell and others in a swamp in Berlin township, in Holmes county, O., in 1890. They were mounted in Ward's Natural Science Establishment, Rochester, N. Y. The entire outlay involved in the purchase of the bones and in mounting them was borne by Mr. Emerson McMillin, of New York.

THE ZOOLOGICAL MUSEUM is located on the ground floor of the wing of Biological Hall. The foundations of a zoological museum have been laid and the work has been begun on a generous plan. Every effort is being made to secure and preserve excellent specimens in all groups of animals. Not only the adult animals are preserved, but the preparatory stages, their work and architecture; in fact, all that can illustrate the life-history and habits.

Among its features and recent additions may be mentioned the Wheaton collection of the birds of Ohio, numbering about 1,000 skins. These have been arranged in Harvard boxes, and may be consulted at any time by those interested.

About 3,500 species of molluscan shells have recently become the property of the museum. These will soon be displayed in suitable cases.

Among the mammals added are two fine specimens of moose, an animal fast disappearing from North America. Our reptiles, fishes and insects are being accumulated as rapidly as possible. There is, besides, a good supply of skeletons, crania and alcoholic material for the laboratory courses in comparative anatomy and general zoology.

Much attention has been given of late to the collection of insects; in some groups it is now abreast of any; especial efforts are being made to increase the exhibit of economic or destructive insects.

THE BOTANICAL MUSEUM occupies the second floor of Botanical Hall. It contains the University herbariums, both general and state, also Professor Kellerman's private herbarium of over 20,000 specimens deposited for use in the Botanical Department; a complete collection of the native woods of Ohio; a collection of the seeds and fruits of plants; a collection of native medicinal plants; a general collection of vegetable products, including seeds, textile fibers, coloring substances, etc., illustrating economic or applied botany.

THE AGRICULTURAL MUSEUM. For a description of this museum, see BUILDINGS—Townshend Hall.

THE ANATOMICAL AND PATHOLOGICAL MUSEUM. For a description of this museum, see Laboratories and Equipment, Veterinary Medicine.

THE MUSEUM OF CLAY-WORKING AND CERAMICS is now in process of formation. Some excellent specimens of ceramic products have already been collected, and efforts are being made to increase the collection.

ARCHÆOLOGIC COLLECTION. Orton Hall now contains the second best archæologic exhibit in the Ohio Valley, the total number of specimens owned by the Ohio State University, the Ohio State Historical and Archæological Society and by private individuals, amounting to 46,200. Although the Museum is but three years old, it has shown a remarkable growth.

Field work has been carried on in the various parts of the State during the summers of 1894, '95 and '96, and as a result the contents of more than eighty mounds, graves and village sites are now on exhibition. The chief exhibits, illustrating the life of ancient tribes are from Fort Ancient in Warren county, from the mound graves of the lower Scioto and from the Muskingum Valley. It is considered that in Ross county aboriginal culture reaches its highest development in the whole Ohio Valley. This fact is well attested by the presence of numerous copper objects, effigy pipes, fine ornaments and ceremonials, pottery, delicate work in polished stone and flint implements, etc.

The collection from the valley of Brush Creek and along the Ohio itself, and from the hill regions of Ohio, show a much lower grade of culture. Careful comparison of the work of man from these localities is exceedingly interesting.

There is an exhibit from Flint Ridge, illustrating the manufacture of arrow and spear heads. The Museum contains nearly 150 specimens of pottery from Missouri and Arkansas, many of which are effigies of animal, bird and human form.

The founders of the Archæologic Museum are arousing public interest in the preservation and study of Ohio antiquities; and by means of exchanges, lectures and personal solicitation, the growth of the collection is considerable.

LIBRARIES

THE UNIVERSITY LIBRARY

The University Library is located in the east end of Orton Hall. The system of departmental libraries prevails to a limited extent, small collections of books specially needed in connection with laboratory and class room work being deposited in several departments.

During term time the Library is open six days in the week, legal holidays being excepted. From Monday until Friday the hours are from 7:30 A. M. until 9:30 P. M.; on Saturday from 8 A. M. until 4 P. M.

The management of the Library is vested in a Library Council which is composed of the President, the Librarian and the Deans of the six colleges.

STATE LIBRARIES

Students are privileged in being near the two State libraries.

The Ohio State Library numbers about 70,000 volumes, and is a circulating one for all the citizens of Ohio. It occupies a room in the State House.

The State Law Library, also in the State House, is the largest and most complete law library in the State. It contains complete sets of the English, Scotch, Irish, Canadian, United States and State reports, statutes and digests. The important legal periodicals are on file.

CITY LIBRARIES

The students of the University, as residents of Columbus, have access to the City Library and the Public School Library, under the usual regulations. The City Library numbers 28,000 volumes. It has specially pleasant reading and reference

rooms. The Public School Library numbers 35,000 volumes, and is a well selected collection of books. Students will find both libraries valuable in supplementing the University Library.

AIDS TO MORAL AND RELIGIOUS CULTURE

Chapel services are held daily (except Saturday and Sunday) at the University, at which the attendance of all instructors and students is expected. The services consist of singing, reading the scriptures, and prayer.

One of the most commendable organizations in the University is a branch of the International Young Men's Christian Association, organized in 1883. It has a large membership and steadily grows in influence. Services are held weekly. New students are made cordially welcome, and young church members will here enjoy Christian influences and fellowship in college life. A University Circle of the Order of the King's Daughters holds its meeting once a week, and includes in its membership a majority of the women attending the University. A club for the study and practice of philanthropy has recently been organized by the King's Daughters.

An effort is being made to complete, by subscription, the fund which was begun two years ago by students, alumni and professors, for the erection of a building to accommodate the student organizations of the University.

LITERARY AND OTHER SOCIETIES

The Alcyone Literary Society, open to young men, was founded in 1874, and the Horton Literary Society, open to young men, was founded in 1875. These societies have commodious and well furnished apartments in University Hall. The Browning Literary Society, founded in 1883, and the Philomathean Literary Society, founded in 1894, are open to young women. These societies meet weekly, and their work, offering to the student a very desirable training in composition, public speaking, and parliamentary order, is a valuable adjunct to collegiate education. The Newman Literary Society, maintained by students of the Roman Catholic faith, was organized in 1892, and holds its meetings bi-weekly.

The Biological Club is an organization of professors and students for mutual assistance and improvement in the line of natural science. Its meetings are regularly held every two weeks, at which papers are read, notes of observation and research presented, and current biological literature discussed. The Chemical Association is a similar organization in the line of chemistry.

The Political Science Association is an organization of instructors and students in political science and history for the consideration of questions in those fields. At the regular bi-weekly meetings papers are read, researches reported, and current questions and publications in political science, considered and discussed.

The Engineering Society is a similar organization of students and instructors, holding meetings by-weekly, for the consideration of questions in the various branches of engineering.

The Townshend Society of the College of Agriculture meets weekly for the discussion of current topics in agriculture and related subjects.

The Germania Society was founded in 1895. Only students that have had elementary ("first year") German are eligible to membership.

The aim of this society is to give to its members additional opportunities for the study of German literature and for the practical use of the German language. Nothing but German is spoken at the meetings, which are held every other week throughout the University year. Students of German find it very advantageous to be present at those meetings and to take an active part in them.

The Athenæan Literary Society, open to young men, was founded in the winter of 1896-'97, and meets weekly.

The Ethical Society, open to all students and to members of the Faculty, was organized in the winter of 1896-'97, and meets on the afternoon of each alternate Sunday.

The Philosophical Society, organized under the auspices of the departments of Philosophy and Pedagogy, in the winter of 1896-'97, is open to the students of the two departments named, and to those interested in Philosophy.

The Organic Evolution Club was organized in the winter of 1896-'97 by those students and members of the Faculty especially interested in the study of Evolution.

The O. S. U. Dramatic Club was organized in 1893. Its object is to present each year to the University world one of the standard legitimate dramas. Its membership is confined to University circles.

The musical organizations of the University are: The O. S. U. Glee Club, composed of sixteen members; the O. S. U. Octette, a mandolin orchestra of eight pieces; the O. S. U. Mandolin and Guitar Club, and the Cadet Band.

The Ornithological Club encourages observation and research in the study of birds and their habits, especially of our native species. The Wheaton collections in the possession of the University forms a basis of study. The programs consist of papers and discussions and reports of observation and personal work. Anyone interested in birds is eligible to membership and visitors are always welcome. The Club meets on the second and fourth Monday evenings of each month.

The O. S. U. Sketch Club was organized for the purpose of promoting art interest among the students of the University. Its membership is confined to University circles. The active members meet once a week for practical work; the associate members meet once a month in open session for literary programs bearing upon art, history and criticism.

The William F. Hunter Society, in the College of Law, meets for moot-court practice and quiz-work every two weeks.

MILITARY SCIENCE AND TACTICS

Under the law of Congress establishing the University, it is required that instruction shall be given in military science and tactics. In accordance with this provision an officer of the regular army has been detailed to take charge of the Department of Military Science and Tactics; and the Trustees have directed that all male students, except those in the Law College, and such others as may be specially excused, shall render two years of cadet service as a condition of graduation. A uniform has been prescribed with which each member is required to provide himself; and fifty minutes a day are devoted to drill, except on those days when instruction in tactics and art of war is given.

The course of instruction is both practical and theoretical. It is given by means of a systematic drill, supplemented by lectures and recitations, and is so arranged as to occupy five hours per week throughout the year. For purposes of drill, all students enrolled in the Department are organized in a battalion, the officers of which are selected from those students who have shown special proficiency in their University work and the work of the Department. Commissioned officers and non-commissioned officers receive certificates of satisfactory service, issued by the University. A cadet band has been organized in connection with this Department, and is supplied with instruments belonging to the University and to the cadets.

The practical course in infantry embraces all the movements prescribed by the drill regulations of the U. S. Army applicable to a battalion. Instruction in artillery embraces such portions of the United States drill regulations as pertain to the formation of detachments, manual of the piece, mechanical maneuvers and aiming drill. Instruction also includes duties of sentinels, the various ceremonies over-

formed by troops, and military signaling. The theoretical instruction includes a systematic and progressive course in drill regulations of the U. S. Army, the organization and administration of the U. S. Army and the elementary principles governing in the art of war.

Competitive drills are held yearly for two medals; one, the first prize, of gold, presented to the University by the M. C. Lilley & Co., of Columbus, Ohio; the other, the second prize, of silver, presented by Lieut. Wilson, when commandant. These medals remain the property of the University, the winner wearing them until the next competition. The "President's Prize" consists of an officer's sword, given to the captain of the company having the best record for attendance for the year.

The equipments of the Department consists of three hundred Springfield cadet rifles and sets of infantry equipment, sixteen officers' swords and belts, the necessary equipment for instruction in signaling, and a few instruments for the band.

The U. S. Ordnance Department furnishes an annual allowance of one thousand rounds of ball and one thousand rounds of blank cartridges for cadet rifles.

PHYSICAL TRAINING

Competent instruction in hygiene and general sanitation is given by the Director of the Gymnasium, who has entire charge of the physical training and well-being of all students. Supplementing this work, the practical instruction in military tactics is found to be a most valuable aid. In addition to this, the University grounds afford excellent opportunities for general athletics, and the students support well organized clubs in base ball, foot ball and lawn tennis. These and other sports are participated in by large numbers, and friendly contests are occasionally held with other colleges. Besides the special clubs named above, the students have an athletic association which holds an annual "Field Day," in which prizes are given to the victors in the various contests usual on such occasions.

OHIO FORESTRY BUREAU

This Bureau has been established and located at the University by the Legislature for the purpose of inquiring into the best means of preserving and utilizing the forests of the State.

TERMS AND VACATIONS

The first term of each University year begins on Wednesday following the tenth day of September, and closes on the Wednesday preceding Christmas. The second term begins on the Wednesday following the first day of January, and closes on the Friday following the twenty-first day of March. The third term begins on the Monday following the close of the second term, and closes on Commencement day, which is the Wednesday following the eleventh day of June.

Regular college exercises are omitted on Thanksgiving Day and the day following, on the twenty-second day of February, and on Memorial Day.

FEES

THE COLLEGES

INCIDENTAL FEE.—A charge of fifteen dollars a year is made against all students, under the head of incidental expense. In the case of former students, if this fee is not paid until the second day of the term one dollar will be added, and for each succeeding day of delinquency fifty cents will be added.

LABORATORY FEES.—Students in the laboratories and shops are required to pay fees to cover, in part, the cost of the material consumed, and the deterioration of the expensive instruments used by them. The fees charged per term in the laboratories mentioned below are as follows:

Anatomy and Physiology, 53, 54, 55, 56, 59, 60.....	\$7 50
“ “ Vet. Medicine, 4.....	5 00
Botany, 4, 6, 7, 8	2 00
Botany, 53, 55, 57, 58, 59, 60, 64	3 00
Botany, 56 (half semester).....	1 50
Ceramics, 4, 5, 6, 9, 10, 11, 12.....	5 00
Domestic Science.....	5 00
Drawing, 7	2 00
Elec. Engineering, 4, 5, 4 or 5 hrs., \$7.00; 3 hrs. or less.....	5 00
Gymnasium	1 00
Shop Work, 4 hrs. or less.....	5 00
“ 5 hrs. or more	7 00
Mechanical Engineering, 12, 13, 14, 15, 16, 17.....	5 00
Physics, 5, 6, 7, 9, 3 hrs., \$5.00; over 3 hrs.....	7 00
Physics, 55, 56, 57, 58, 60, 3 hrs., \$7.50; over 3 hrs.....	10 50
Zoology and Entomology, 53, 54, 55, 56, 61, 62.....	7 50
“ “ 57, 58, 59, 60	4 50
“ “ Agriculture, 4, 7	1 00

The fees of the College of Law are \$20 per term, including the usual incidental fee.

In the laboratories of the Department of Chemistry, Agricultural Chemistry, Ceramics, Pharmacy and Metallurgy each student is required at the beginning of each term to pay a fixed charge of one dollar and fifty cents for gas and water (\$2.25 each semester). He is also required to buy his own supplies, as he needs them, at the general storeroom in Chemical Hall, where laboratory supplies are sold to students at first cost to the University.

All term dues must be paid at the opening of each term as a condition of admission to classes.

GRADUATION FEE.—A fee of five dollars, to cover expenses of graduation, diplomas, etc., is required of each person receiving one of the ordinary degrees from the University, and this fee must be paid before the degree is conferred. A like fee of ten dollars is charged to each person receiving one of the higher graduate degrees.

FREE SCHOLARSHIP IN AGRICULTURE AND IN VETERINARY MEDICINE.—A free scholarship, good for the Short Course in Agriculture or for the First year of the four-year Course in Agriculture, is granted to one student annually from each county in Ohio. Each scholarship is valid two years from its grant, and covers all college dues (incidental and laboratory fees), but the person appointed to receive its benefits is subject to all the other conditions prescribed for admission to the Course. If in any county there is no applicant for the free scholarship in Agriculture, then a free scholarship, good for two years in the College of Veterinary Medicine, may be granted, subject to the same conditions as are prescribed for the free scholarship in Agriculture. The appointments are made by the county boards of agriculture, and are not transferable by the appointees. To learn whether the scholarship of a given county for the current year has been granted, inquiries should be addressed to the Secretary or President of the County Agricultural Society. For further information concerning these scholarships, inquiries should be addressed to the Executive office of the University, or to the Professor of Agriculture.

THE COLLEGE OF LAW

INCIDENTAL FEE.—An incidental fee of fifteen dollars per year is charged to regular undergraduate students.

Upon payment of the incidental fee, law students will be admitted to all the privileges of all the other Colleges of the University, upon the same terms as to admission, discipline, character of studies selected, etc., as other students in the University.

TUITION FEE.—In addition to the incidental fee named above, a tuition fee of fifteen dollars per term is charged to regular undergraduate students.

GRADUATE FEE.—A graduate fee of ten dollars per term, payable in advance, is charged to all who take the full graduate work.

DIPLOMA FEE.—A fee of five dollars (to cover the expenses of graduation, diplomas, etc.,) is charged to all who take the degree of Bachelor of Laws, and a fee of ten dollars is charged to those taking the degree of Master of Laws. These fees must be paid before the degrees are conferred.

Special students are required to arrange their fees satisfactorily with the Dean or Secretary before being admitted.

OTHER EXPENSES

There are two dormitories on the University grounds for the use of students. Each occupant is charged by the University a rent of five dollars a term.

The South Dormitory affords unfurnished rooms to such students as desire to board themselves, and thus to reduce their expenses to a minimum. The expense of living in this way is about two dollars per week. Applications for rooms should be made to the President of the University.

The North Dormitory will accommodate more than sixty students. Board, furnished rooms, fuel, light and washing are, at present prices, supplied for about three dollars and fifty cents a week. Students will be admitted on special recommendation to the President of the University.

Boarding clubs are also formed in the neighborhood of the University. Furnished rooms are rented at seventy-five cents to one dollar a week for each student, and the cost of table board is two dollars to three dollars a week.

Board with furnished rooms can be obtained in private families, within convenient distances of the University, at rates varying from three and a half dollars to five dollars a week. The ruling rate may be taken as four dollars.

The uniform with which the members of the battalion are required to provide themselves costs (without overcoat) about fourteen dollars. It is quiet in pattern, and is designed to be worn daily in place of civilian dress.

The expenses of a student in the University for a year may be estimated as follows, excluding clothing (except uniform) and traveling expenses:

	Low.	Average.	High.
Incidental fees.....	\$15 00	\$15 00	\$15 00
Laboratory fees.....	15 00	20 00	54 00
Books and stationery.....	15 00	25 00	40 00
Room.....	4 50	37 00	75 00
Furniture.....	10 00	.....	.....
Board.....	70 00	110 00	150 00
Uniform.....	14 00	14 00	14 00
	<u>\$143 50</u>	<u>\$221 00</u>	<u>\$348 00</u>

The second and third estimates for room include light, fuel and care. The third estimate is for a room occupied by a single student. The requirements for laboratory fees and books depend upon the course of study pursued.

SELF-SUPPORT

There is a large amount of work upon the University farm which is assigned to students, preference being given to those who are studying Agriculture. *But the University cannot promise work to all applicants.* Many students find work in private families, in offices, and in various occupations, by means of which they defray at least a portion of their expenses. A person of ability and energy, who is master of a trade, or who can do good work of any kind, can generally find remunerative employment. It has seldom been known that any student of ordinary energy and industry was obliged to leave the University because of a lack of money for necessary expenses, *after having been say sixty days on the ground*—or long enough to inform himself as to the opportunities for securing employment. An employment bureau is maintained at the University, where the names of those seeking work and of those desiring workers are recorded.

For further information, address "Executive Office, State University, Columbus, Ohio."

THE COLLEGES

The Colleges

ADMISSION

The University is open on equal terms to both sexes.

The entrance examinations for 1897 will be held on Monday and Tuesday, June 14 and 15, and on Monday and Tuesday, September 13 and 14. A part of the examinations may be taken in June and the remainder in September. Conditions incurred at the June examinations must be removed at the September examinations.

Applicants for admission to the Colleges of Agriculture, of Arts, Philosophy and Science, or of Pharmacy, must be at least sixteen years of age; for admission to the College of Engineering or of Veterinary Medicine must be at least seventeen years of age; for admission to the College of Law must be at least eighteen years of age. Each must be provided with credentials of scholarship from his last instructor or from the last institution with which he has been connected, and with a certificate of good moral character.

There are three modes of admission to the University:

1. Certificates of the preparatory departments of Colleges of approved standing and of Normal schools in Ohio are accepted, if found satisfactory, in lieu of examination for preparatory studies, under the following conditions:

Each certificate must contain a detailed statement of the studies pursued, the text books used, the amount of work done in each study, the amount of time devoted to it, the date of the examination, and the applicant's rank or standing in it. A copy of the course of study should accompany the certificate; and both should be sent to the University not later than the first of September. *The University cannot promise this recognition to those certificates presented during entrance week.*

Blank certificates will be furnished on application.

Applicants for admission who come from other Colleges or Universities are required to bring certificates of honorable dismissal.

Teachers' certificates (in force) will be accepted at their face value.

2. From time to time the University approves the courses of study in certain High Schools of the State: and the graduates of these High Schools are admitted on presentation of cards issued to them at their graduation by the University through the Principals of the High Schools.

3. All other applicants are subject to examination on the groups of study mentioned below under the headings of those Colleges and Courses in the University which they desire to enter.

Full equivalents for the text-books named will be accepted

ADMISSION TO SPECIAL STUDIES

Students who desire to pursue special lines of work in any of the Colleges of the University, and do not desire to become candidates for degrees, will be admitted on the following conditions:

1. The regular entrance requirements must be satisfied.

But applicants who are not less than twenty-one years of age (eighteen years, in the College of Engineering), after obtaining credit for elementary or "grade" work, and for such other subjects as may be necessary to qualify them for the classes

that they wish to enter, may, on the presentation of satisfactory reasons, be admitted by the proper Faculty to any class in the University; provided, that if any student who has been admitted on these conditions afterwards becomes a candidate for a degree, he shall take the omitted entrance examinations at least twelve months before the degree is conferred.

2. On entering the University, students desiring to pursue special work are required to lay before the proper Faculty, for approval or modification, a written statement of the end they have in view, the studies proposed for the attainment of that end, and the probable period of attendance. Such students will be held as strictly to their accepted schemes of work as are the regular undergraduates to their courses of study.

3. *Permission to enter as special undergraduates will be refused to all who fail to give satisfactory evidence of definiteness of purpose, and will be withdrawn whenever the conditions on which it was granted cease to exist.*

ADMISSION TO ADVANCED STANDING

1. Applicants who do not come from some other University or College must first obtain admission to some College of the University in the manner already described. They will then be examined on the undergraduate studies for which they ask credits.

2. Applicants who come from the collegiate department of an approved College, and who bring explicit and official certificates describing their course of study and scholarship, and also certificates of honorable dismissal, will be admitted without examination except such as may be necessary to determine what credit they are to receive here for work done in the College from which they come.

ADMISSION TO GRADUATE WORK

Graduates of this or other institutions may, on application to the Faculty, enter the University and pursue such lines of work as may be arranged or approved by the appropriate collegiate committee. Such graduate students are subject to all the ordinary regulations (as to fees, attendance, etc.) prescribed for undergraduates.

1. **MASTERS DEGREES.**—Masters degrees are conferred upon graduates in Arts, Philosophy, Science, Agriculture, Horticulture and Forestry, and Pharmacy at the end of not less than one year's residence, which shall be wholly devoted to the completion of an approved course of study in the University. Each is required in addition to present an acceptable thesis upon some subject connected with his Course of study. Masters degrees are conferred without residence *upon graduates of this institution*, upon the same conditions of study and thesis as above; but these degrees will not be so conferred within less than three years after graduation. *The incidental fee of five dollars a term is due from candidates studying in absentia as from all other students, and should be forwarded to the Bursar of the University at the beginning of each term.*

2. **DOCTORS DEGREES.**—The degree of Doctor of Philosophy is conferred upon Bachelors of Arts, Bachelors of Philosophy, and Bachelors of Science at the end of not less than three years' residence and study, during the latter two years of which the candidate is required to pursue and complete an approved Course of study in at least two distinct departments of the University. He is, in addition, required to present an acceptable thesis, embodying original research.

The degree of Doctor of Science is conferred upon Bachelors of Science and graduates in the full technical Courses, at the end of a course of special, advanced study in science, upon the same conditions as to residence, time, and other requirements as are established for the degree of Doctor of Philosophy.

COLLEGE OF AGRICULTURE AND DOMESTIC SCIENCE

FOR ADMISSION¹

The following are the requirements:

1. *Arithmetic, Descriptive and Physical Geography, English Grammar, and United States History.*

2. *English, (a)*—Composition and Rhetoric. Each applicant will be tested as to his ability to write clear and correct English. The test will be the writing of two essays of about two hundred words each. The first essay will be upon a subject drawn from the candidate's observation or experience; as "A description of my native town," "The most remarkable person I ever met," "My reasons for seeking a University education." The second essay will be upon a subject drawn from the list of classics which will be furnished on application.

The proper preparation for this requirement is sustained and regular practice in writing. The pupil should be afforded weekly practice in preparing written exercises—paragraphs, outlines, themes, reproductions and abstracts; and his written work should be corrected by the teacher and revised and rewritten by himself.

The pupil should be familiarized with those principles of Rhetoric which are most likely to help him in his composition work: such as the principles of sentential structure, outlining, paragraphing, and choice of words. The study of specimens of bad English is not recommended; the time usually devoted to this may be better spent in memorizing and reciting notable passages of prose and poetry selected from works read entire by the class. Exercises in speaking from a topical outline previously prepared by the class are recommended for drill in expression and choice of words.

The subjects for the weekly written exercises should be so distributed that the pupil will have practice in the four types—description, narration, exposition and argumentation. Some of these subjects should be taken from English and American classics, prescribed for parallel or subsidiary outside reading by the class; but fully one-half of the subjects upon which the pupil writes during his preparatory course should be drawn from his own observation and experience, especially subjects in description and narration.

(b) *English Classics*—Questions will be set for the purpose of testing the applicant's knowledge of the subject-matter, form and substance, of the following books; with the plot, purpose, literary style and peculiarities, incidents, and characters of which the applicant should make himself thoroughly familiar.

1898. Milton's *Paradise Lost*, Books I and II; Pope's *Iliad*, Books I and XXII; Goldsmith's *The Vicar of Wakefield*; Southey's *Life of Nelson*; Lowell's *The Vision of Sir Launfal*; Hawthorne's *The House of the Seven Gables*.

1899. Chaucer's *The Knight's Tale*, or Dryden's *Palamon and Arcite*; Milton's *Paradise Lost*, Books I and II; Pope's *Iliad*, Books I, VI, XXII and XXIV; The Sir Roger de Coverley Papers in *The Spectator*; Goldsmith's *The Vicar of Wakefield*; Scott's *Ivanhoe*; Cooper's *The Last of the Mohicans*; Lowell's *The Vision of Sir Launfal*; Hawthorne's *The House of Seven Gables*.

1900. Chaucer's *The Knight's Tale*, or Dryden's *Palamon and Arcite*; Milton's *Paradise Lost*, Books I and II; Pope's *Iliad*, Books I, IV, XXII, and XXIV; The Sir Roger de Coverley Papers in *The Spectator*; Goldsmith's *The Vicar of Wakefield*; Scott's *Ivanhoe*; Cooper's *The Last of the Mohicans*; Macaulay's *Essay on Milton*; Burke's *Conciliation with the Colonies*.

¹An applicant for admission who may be somewhat in arrears in any given subject, will find opportunity to make up his work in the Columbus High Schools, which are fully accredited by the University.

These or equivalent texts will require minute and critical study in class during at least one school year. The test here is the pupil's ability to analyze plot and character; to explain words, phrases and figures; to reproduce thought, to point out characteristics of style. Systematic class-room study of the texts themselves is the only adequate preparation. Literary history, literary biography and the comments of professional critics will not serve the purpose. The work in class should be intensive and disciplinary; there the distinction between the reading of literature and the study of classics should be sharply defined. Outside reading of other works, preferably by the same authors, is recommended, and should be prescribed as the basis of part of the composition work; but this general reading and composition work should not be regarded as an adequate substitute for the minute study of the few classics prescribed above, and will not be accepted as preparation for this part of the English requirement.

3. *Algebra*—Venable's Easy Algebra, complete.

4. *Botany*—Gray, or Kellerman's Botany and Flora.

7. *Latin*—Pronunciation (the Roman method); Grammar (an exact knowledge of the inflections is essential); Cæsar, the first four books of the *De Bello Gallico*.

Or *French*—The whole subject of French Grammar. Applicants will be expected to read at sight easy French and to translate correctly into French simple English sentences. Two years ought to be given to this study, the first year being spent mainly on the Grammar with easy reading; the second devoted to reading good modern French, with grammatical analysis and exercises in writing. The texts read should be chiefly narrative and conversational prose: one or more prose comedies of the nineteenth (*not* the seventeenth) century should be included.

Or *German*—Joynes-Meissner's German Grammar, complete; Joynes's German Reader, complete; Hauff's *Lichtenstein*, Lessing's *Minna von Barnhelm*, Huss's *Sessenheim* and Buchheim's Goethe's *Dichtung und Wahrheit*.

For the present, the *German* or *French* required for admission may be begun at the University, but without University credits.

5. *Plane Geometry*—Venable, Wentworth, or Wells.

6. *Physics*—Gage, Carhart and Chute, Avery, or Appleton.

7. Either of the following:

Civil Government—Fisk or Thorpe preferred.

History—Myer's *General History*.

COURSE IN AGRICULTURE

NOTE—The figure in parenthesis following the name of each study indicates the number of that study in its department. A full description of department work follows this statement of Courses.

FIRST YEAR

REQUIRED

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Agr'l Chemistry (1) Principles.	5.	Agr'l Chemistry (8) Organic.	5.	Agr'l Chemistry (9) Applications.	5.
Botany (6) Physiological.	5	Botany (7) Physiological and Economic.	5.	Botany (8) Economic Botany and Vegetable Pathology.	5.
Drawing (10)	2				
Rhetoric (1) Paragraph Writing.	2.	Rhetoric (1) Theme writing.	2.	Rhetoric (1) Prose Analysis.	2.
Zoology (1) Systematic.	3.	Zoology (1) Morphology.	3.	Zoology (1) Entomology.	3.
Cadet Service (men).*		Cadet Service (men).		Cadet Service (men).	
Hygiene and Physical Training (women).		Hygiene and Physical Training (women).		Hygiene and Physical Training (women).	

SECOND YEAR

REQUIRED

Agriculture (8) Breeds of Live Stock.	4.	Agriculture (9) Principles of Breeding.	4.	Agriculture (10) Stock Feeding.	4
Agr'l Chemistry (4) Laboratory.	5.	Agr'l Chemistry (4) Laboratory.	5	Agr'l Chemistry (4) Laboratory.	5.
Horticulture (1) Elements.	4.	Shopwork (1, 2) Carpentry, Forging.	3.	Horticulture (1) Elements.	4.
Physiology (1) Anatomy.	3.	Physiology (1) Physiology.	3	Physiology (1) Physiology.	3.
Zoology (4) Economic Entomology.	2.	Zoology (4) Economic Entomology.	2.	Zoology (4) Economic Entomology.	2.
Cadet Service (men).		Cadet Service (men).		Cadet Service (men).	
Hygiene and Physical Training (women)		Hygiene and Physical Training (women).		Hygiene and Physical Training (women)	

*A rule of the Board of Trustees requires each male student (except students in the College of Law) to render two years' cadet service as a condition of graduation. Students physically incapacitated for cadet service will be assigned an equivalent in special gymnasium work. The President has authority to excuse from cadet service under certain conditions.

Young women are required to carry Hygiene and Physical Training in place of cadet service.

THIRD YEAR

REQUIRED

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Agriculture (11) Farm Equipment.	4.	Agriculture (12) Soils.	4.	Agriculture (13) Crops. Drawing (2) Lettering.	4. 3.
French (1) Elementary. or German (1) Elementary.	4.	French (1) Elementary. or German (1) Elementary.	4.	French (1) Elementary. or German (1) Elementary.	4.
Geology (2) General.	5.	Geology (2) General.	5.		
Veterin'y Medicine (28) Anatomy.	5.	Veterin'y Medicine (29) General Pathology.	5.	Veterin'y Medicine (30) Special Pathology.	5.

FOURTH YEAR

REQUIRED

Agriculture (14) Animal Mechanics.	4.	Agriculture (15) Dairy.	4.	Agriculture (16) Rural Economics.	4.
History (5) U. S. Political.	4.	History (5), Economics (1) Political Economy.	4.	Economics 1)	4.

ELECTIVE

Ten hours a week through the year, including two hours for thesis, chosen from any of the courses given in any College of the University upon which the student is qualified to enter; except in the College of Law.

THESIS

As a requisite for graduation each candidate must present an acceptable thesis embodying the results of a special research. The subject must be announced to the President of the University (dependent upon the written approval of the head of the department in which it lies) not later than the beginning of the second term of the fourth year. The completed thesis must be submitted not later than the second Saturday before Commencement Day.

COURSE IN HORTICULTURE AND FORESTRY

FIRST YEAR

REQUIRED

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Agr'l Chemistry (1) Principles.	5.	Agr'l Chemistry (8) Organic.	5.	Agr'l Chemistry (9) Applications.	5.
Botany (6) Physiological.	5.	Botany (7) Physiological, Economic.	5.	Botany (8) Economic Botany Vegetable Pathology.	5.
Drawing (10)	2.				
Rhetoric (1) Paragraph Writing.	2.	Rhetoric (1) Theme writing.	2.	Rhetoric (1) Prose Analysis.	2.
Zoology (1) Systematic.	3.	Zoology (1) Morphology.	3.	Zoology (1) Entomology.	3.
Cadet Service (men).		Cadet service (men).		Cadet Service (men).	
Hygiene and Physical Training (women).		Hygiene and Physical Training (women).		Hygiene and Physical Training (women).	

SECOND YEAR

REQUIRED

Agr'l Chemistry (4) Laboratory.	5.	Agr'l Chemistry (4) Laboratory.	5.	Agr'l Chemistry (4) Laboratory.	5.
French (1) Elementary. or German (1) Elementary.	4.	French (1) Elementary. or German (1) Elementary.	4.	French (1) Elementary. or German (1) Elementary.	4.
Horticulture (1) Elements.	4.	Shopwork (1, 2) Carpentry and Forging.	3.	Horticulture (1) Elements.	4.
Physiology (1) Anatomy.	3.	Physiology (1) Physiology.	3.	Physiology (1) Physiology.	3.
Zoology (4) Economic Entomology.	2.	Zoology (4) Economic Entomology.	2.	Zoology (4) Economic Entomology.	2.
Cadet Service (men).		Cadet Service (men).		Cadet Service (men).	
Hygiene and Physical Training (women).		Hygiene and Physical Training (women).		Hygiene and Physical Training (women).	

THIRD YEAR

REQUIRED

Agriculture (11) Farm Equipment.	4.	Agriculture (12) Soils.		Agriculture (13) Crops.	4.
				Drawing (2) Lettering.	3.
French (2) or German (4)	4.	French (2) or German (4)	4.	French (2) or German (4)	4.
Geology (2) General.	5.	Geology (2) General.	5.	Zoology (4) Economic Entomology.	3.
Horticulture (5) Pomology, Viticulture.	4.	Horticulture (6) Vegetables and Seeds.	4.	Horticulture (7) Small Fruits and Spraying.	4.

FOURTH YEAR

REQUIRED

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Horticulture (8) Elementary Floriculture.	2.	Horticulture (9) Commercial Floriculture	2.	Horticulture (10) Home Floriculture.	2
Horticulture (11) Arboriculture.	2.	Horticulture (12) Forestry.	2.	Horticulture (13) Landscape Gardening.	2
History (5) U. S. Political.	4.	History (5), Economics (1) Political Economy.	4.	Economics (1)	4

ELECTIVE

Ten hours a week through the year, including two hours for thesis, chosen from any of the courses given in any College of the University upon which the student is qualified to enter; except in the College of Law.

THESIS

As a requisite for graduation each candidate must present an acceptable thesis embodying the results of a special research. The subject must be announced to the President of the University (dependent upon the written approval of the head of the department in which it lies) not later than the beginning of the second term of the fourth year. The completed thesis must be submitted not later than the second Saturday before Commencement Day.

COURSE IN DOMESTIC SCIENCE

FIRST YEAR

REQUIRED

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Agr'l Chemistry (1) Principles.	5.	Agr'l Chemistry (8) Organic.	5.	Agr'l Chemistry (9) Applications.	5.
Botany (6) Physiological.	5.	Botany (7) Physiological and Economic.	5.	Botany (8) Economic Botany Vegetable Pathology.	5.
Drawing (1)	2.	Drawing (1)	2.	Drawing (1)	2.
Rhetoric (1) Paragraph Writing.	2.	Rhetoric (1) Theme Writing.	2.	Rhetoric (1) Prose Analysis.	2.
Zoology (1) Systematic.	3.	Zoology (1) Morphology.	3.	Zoology (1) Entomology.	3.
Hygiene and Phys. Train.		Hygiene and Phys. Train.		Hygiene and Phys. Train.	

SECOND YEAR

REQUIRED

Agr'l Chemistry (4) Laboratory.*	5.	Agr'l Chemistry (4) Laboratory.*	5.	Agr'l Chemistry (4) Laboratory.*	5.
Domestic Science (1)	4.	Domestic Science (2)	4.	Domestic Science (3)	4.
Drawing (3)	2.	Drawing (12) Modelling.	2.	Drawing (15) House Designing.	2.
French (1) Elementary.	} 4.	French (1) Elementary.	} 4.	French (1) Elementary.	} 4.
or German (1) Elementary.		or German (1) Elementary.		or German (1) Elementary.	
Pedagogy or Eng. Literature.	} 2.	Pedagogy or Eng. Literature.	} 2.	Pedagogy or Eng. Literature.	} 2.
Hygiene and Phys. Train.		Hygiene and Phys. Train.		Hygiene and Phys. Train.	

*Specific laboratory work will be provided for students in this course, where necessary.

THIRD YEAR

REQUIRED

Domestic Science (4)	4.	Domestic Science (5)	4.	Domestic Science (6)	4.
Economics (1) Political Economy.	4.	Economics (1) +Eng. Literature (52)	} 4.	+Eng. Literature (52)	4.
French (2) or German (4)	} 4.	French (2) or German (4)		French (2) or German (4)	} 4.
Physiology (1) Anatomy.		Physiology (1) Physiology	3.	Physiology (1) Physiology.	3.
Zoology (4) Economic Entomology.	2.	Zoology (4) Economic Entomology.	2.	Zoology (4) Economic Entomology.	2.
or Drawing (19)	2.	or Drawing (19)	2.	or Drawing (19)	2.
or History	3.	or History	3.	or History	3.

+If English Literature is elected in the second year, advanced English Literature is required in the third year.

FOURTH YEAR

REQUIRED

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Domestic Science (7)	4.	Domestic Science (8)	4.	Domestic Science (9)	4.
Horticulture (8)	2.	Horticulture (9)	2.	Horticulture (10)	2.
General Floriculture.		Commercial Floriculture.		Home Floriculture.	
		Physiology (6)	2.		

ELECTIVE

Ten hours a week through the year chosen from any of the courses given in any College of the University upon which the student is qualified to enter; except in the College of Law.

THESIS

As a requisite for graduation, each candidate must present an acceptable thesis embodying the results of a special research. The subject must be announced to the President of the University (dependent upon the written approval of the head of the department in which it lies) not later than the beginning of the second term of the fourth year. The completed thesis must be submitted not later than the second Saturday before Commencement Day.

THE SHORT COURSES

A two-year course in Agriculture and a two-year course in Domestic Science have been provided for those who have neither the time nor the means to pursue four-year courses. These short courses also enable those who lack the preparation for entering the four year courses to obtain such preparation. The studies of the first year of the short courses, it will be noticed, nearly prepare the student to enter the first year of the four-year courses. The student having had chemistry in the first year of a short course can finish his preparation for either of the four-year courses during the first year of the latter course, in place of the chemistry required.

At the end of the first year of the Short Course in Agriculture, for example, the student has three strings to his bow. He may finish the second year of the short course by taking the more technical studies from the four-year courses, if lack of time or means demands it; or he may enter either the four-year course in Agriculture or the four-year course in Horticulture and Forestry. The same is practically true of the Short Course in Domestic Science.

These short courses are not, of course, to be compared in breadth, strength, or thoroughness with the full courses of the University. They are far better preparation for the work to which they lead than no preparation; but all students are urged to take or to continue into the full four-year courses wherever possible.

ADMISSION TO THE SHORT COURSES IN AGRICULTURE AND DOMESTIC SCIENCE AND THE COURSE IN DAIRYING

Applicants must be at least fifteen years of age, and unless over twenty-one years of age must pass an examination in *Arithmetic, Geography, Grammar* and *United States History*, or bring High School or other certificates for those branches. Applicants who are over twenty-one are admitted without examination.

THE SHORT COURSE IN AGRICULTURE

FIRST YEAR

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Agr'l Chemistry (1) Principles.	5.	Agr'l Chemistry (8) Organic.	5.	Agr'l Chemistry (9) Applications.	5.
Mathematics (1) Algebra.	5.	Mathematics (3) Geometry.	5.	Botany (1) Elementary.	5.
Physics (1) Elementary.	5.	Physics (1) Elementary.	5.	Geology (1) Physical Geography.	5.
Drawing (10) Mechanical.	2.	Shopwork (1, 2) Carpentry, Forging.	3.	Physiology (2) General.	3.
Cadet Service.		Cadet Service.		Cadet Service.	

SECOND YEAR

Not less than fifteen hours per week through the year; chosen from any of the following course subject to conditions named under "Departments of Instruction."

Agriculture (8) Breeds of Live Stock.	4.	Agriculture (9) Principles of Breeding.	4.	Agriculture (10) Stock Feeding.	4.
Agriculture (11) Farm Equipment	4.	Agriculture (12) Soils.	4.	Agriculture (13) Crops.	4.
Botany (6) Physiological.	5.	Agriculture (15) Dairy.	4.	Zoology (7) Entomology.	3.
Horticulture (1) Elements.	4.	Horticulture (1) Elements.	4.	Horticulture (1) Elements.	4.
Veterinary Medicine (28) Anatomy.	5.	Veterinary Medicine (29) General Pathology.	5.	Veterinary Medicine (30) Special Pathology.	5.
Horticulture (5)	4.	Horticulture (6) Physiology (6)	4. 2.	Horticulture (7)	4.
Cadet Service		Cadet Service.		Cadet Service.	

COURSE IN DAIRYING

The course in dairying begins each year on the Wednesday following the first day of January, and continues during the entire term. Butter-making, as practiced in the farm dairy and in the creamery, is thoroughly taught. The student performs all necessary operations in the manufacture of butter by these two methods, under the guidance of the instructors. In cheese-making the principles are taught, with elementary practice.

Agriculture (5). Dairy Farming.—Three hours each week. Lectures and recitations on breeds, breeding, feeding, selection and judging of dairy stock, equipment and management of dairy farms.

Agriculture (6). Butter and Cheese-making.—Four half days each week. Laboratory practice in running separator, churning, working butter, making cheese, milk testing, etc.

Agriculture (7). Butter and Cheese-making.—Two hours each week. Lectures and recitations.

Agricultural Chemistry (7). Milk Chemistry and Milk Testing.—Two hours each week. Lectures and laboratory practice.

Physiology (6). Bacteria in their relation to Milk, Butter and Cheese.—Two hours each week. Lectures and laboratory practice.

Veterinary Medicine (17). Diseases of the Cow.—Three hours each week.

Care of the Boiler and Engine.—One lecture each week during six weeks.

SHORT COURSE IN DOMESTIC SCIENCE

FIRST YEAR

REQUIRED

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Agr'l Chemistry (1) Principles.	5.	Agr'l Chemistry (8) Organic.	5.	Agr'l Chemistry (9) Applications.	5.
Mathematics (1) Algebra.	5.	Mathematics (3) Geometry.	5.	Botany (1) Elementary.	5.
Physics (1) Elementary.	5.	Physics (1) Elementary.	5.	Geology (1) Physical Geography.	5.
Hygiene and Physical Training. Hygiene and Physical Training. Hygiene and Physical Training.					

SECOND YEAR

REQUIRED

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Domestic Science,	4.	Domestic Science	4.	Domestic Science	4.
Domestic Science.	4.	Domestic Science.	4.	Domestic Science.	4.
Hygiene and Physical Training.		Hygiene and Physical Training.		Hygiene and Physical Training	

ELECTIVE

Not less than seven hours per week chosen from the following courses; subject to the conditions named under "Departments of Instruction :"

Botany (6)	5.	Botany (7)	5.	Botany (8)	5.
Physiological.		Physiological and		Economic Botany	
		Economic.		Vegetable Pathology.	
Drawing (1)	2.	Drawing (1)	2.	Drawing (1)	2.
English Literature.	2.	English Literature.	2.	English Literature.	2.
Horticulture (8)	2.	Horticulture (9)	2.	Horticulture (10)	2.
General Floriculture.		Commercial Floriculture.		Home Floriculture.	
Pedagogy.	2.	Pedagogy.	2.	Pedagogy.	2.
Rhetoric (1)	2.	Rhetoric (1)	2.	Rhetoric (1)	2.
Paragraph Writing.		Theme Writing.		Prose Analysis.	
Zoology (1)	3.	Zoology (1)	3.	Zoology (1)	3.
Systematic.		Morphology.		Entomology.	

COLLEGE OF ARTS, PHILOSOPHY AND SCIENCE

FOR ADMISSION¹ TO THE COURSE IN ARTS

The following are the requirements :

1. *Arithmetic, Descriptive and Physical Geography, English Grammar, and United States History.*

2. *English*—(a) Composition and Rhetoric. Each applicant will be tested as to his ability to write clear and correct English. The test will be the writing of two essays of about two hundred words each. The first essay will be upon a subject drawn from the candidate's observation or experience; as "A description of my native town," "The most remarkable person I ever met," "My reasons for seeking a University education." The second essay will be upon a subject drawn from the list of classics printed below.

The proper preparation for this requirement is sustained and regular practice in writing. The pupil should be afforded weekly practice in preparing written exercises—paragraphs, outlines, themes, reproductions and abstracts; and his written work should be corrected by the teacher and revised and rewritten by himself.

The pupil should be familiarized with those principles of Rhetoric which are most likely to help him in his composition work; such as the principles of sentential structure, outlining, paragraphing, and choice of words, as given in Keele's English Composition, Hill's Elements of Rhetoric, or Genung's Outlines of Rhetoric. The study of specimens of bad English is not recommended: the time usually devoted to this may be better spent in memorizing and reciting notable passages of prose and poetry selected from works read entire by the class. Exercises in speaking from a topical outline previously prepared by the class are recommended for drill in expression and choice of words.

The subjects for the weekly written exercises should be so distributed that the pupil will have practice in the four types—description, narration, exposition and argumentation. Some of these subjects should be taken from the classics prescribed below and other classics, preferably by the same authors, prescribed for parallel or subsidiary outside reading by the class: but fully one-half of the subjects upon which the pupil writes during his preparatory course should be drawn from his own observation and experience, especially subjects in description and narration.

(b) English Classics—Questions will be set for the purpose of testing the applicant's knowledge of the subject-matter, form and substance, of the following books; with the plot, purpose, literary style and peculiarities, incidents, and characters of which the applicant should make himself thoroughly familiar.

1898. Milton's *Paradise Lost*, Books I and II; Pope's *Iliad*, Books I and XXII; Goldsmith's *The Vicar of Wakefield*; Southey's *Life of Nelson*; Lowell's *The Vision of Sir Launfal*; Hawthorne's *The House of Seven Gables*.

1899. Chaucer's *The Knight's Tale*, or Dryden's *Palamon and Arcite*; Milton's *Paradise Lost*, Books I and II; Pope's *Iliad*, Books I, VI, XXII, and XXIV; The Sir Roger de Coverly Papers in *The Spectator*; Goldsmith's *The Vicar of Wakefield*; Scott's *Ivanhoe*; Cooper's *The Last of The Mohicans*; Lowell's *The Vision of Sir Launfal*; Hawthorne's *The House of Seven Gables*.

1900. Chaucer's *The Knight's Tale*, or Dryden's *Palamon and Arcite*; Milton's *Paradise Lost*, Books I and II; Pope's *Iliad*, Books I, VI, XXII, and XXIV; The Sir Roger de Coverly Papers in *The Spectator*; Goldsmith's *The Vicar of Wakefield*; Scott's *Ivanhoe*; Cooper's *The Last of The Mohicans*; Macaulay's *Essay on Milton*; Burke's *Conciliation with the Colonies*.

¹An applicant for admission who may be somewhat in arrears in any given subject, will find opportunity to make up his work in the Columbus High Schools, which are fully accredited by the University.

These or equivalent texts will require minute and critical study in class during at least one school year. The test here is the pupil's ability to analyze plot and character, to explain words, phrases and figures; to reproduce thought, to point out characteristics of style. Systematic class room study of the texts themselves is the only adequate preparation. Literary history, literary biography and the comments of professional critics will not serve the purpose. The work in class should be intensive and disciplinary; there the distinction between the reading of literature and the study of classics should be sharply defined. Outside reading of other works, preferably by the same authors, is recommended, and should be prescribed as the basis of part of the composition work; but this general reading and composition work should not be regarded as an adequate substitute for the minute study of the few classics prescribed above, and will not be accepted as preparation for this part of the English requirement.

3. *Algebra*—Wentworth's or Wells's Elements, complete.
4. *Botany*—Kellerman's Elementary Botany and Spring Flora.
5. *Civil Government*—Fiske or Thorpe preferred.
6. *Geometry, Plane and Solid*—Venable, Wentworth, or Wells.

7. *Greek*—Grammar (Goodwin's preferred) and Prose Composition; or the first 100 lessons of White's Beginner's Greek Book. Reading: The first three books of Xenophon's *Anabasis*. At least two years should be devoted to this work.

8. *History*—Either Myers's General History (or equivalent); or, if the teacher's training and the school library will warrant, Greek and Roman History on the topical method. A circular concerning the topical method will be sent on application.

9. *Latin*—Pronunciation (the Roman method); Grammar (an exact knowledge of the inflections is essential); Caesar, the first four books of the *De Bello Gallico*; Cicero, six orations, including *Pro Lege Manilia*; Vergil, the first books of the *Æneid*, with Prosody; Prose Composition, Daniell or Collar or Jones, entire.

10. *Physics*—Carhart and Chute, Gage, Avery, or Appleton.

For the present, the *Greek* required for admission may be begun at the University, but without University credits.

TO THE LATIN COURSE IN PHILOSOPHY

The requirements are the same as for admission to the Course in Arts; except that instead of *Greek*, the applicant must offer *French* or *German*, as follows:

French—The whole subject of French Grammar. Applicants will be expected to read at sight easy French; and to translate correctly into French, simple English sentences. Two years ought to be given to this study, the first year being spent mainly on the Grammar with easy reading; the second devoted to reading good modern French, with grammatical analysis and exercises in writing. The texts read should be chiefly narrative and conversational prose; one or more prose comedies of the nineteenth (not the seventeenth) century should be included.

German—Joynes-Meissner's German Grammar, complete; Joynes's German Reader, complete; Hauff's *Liechtenstein*, Lessing's *Minna von Barnhelm*, Huss's *Sessenheim* and Buchheim's Goethe's *Dichtung und Wahrheit*.

For the present, the *German* or *French* required for admission may be begun at the University, but without University credits.

TO THE MODERN LANGUAGE COURSE IN PHILOSOPHY

The requirements are the same as for admission to the Course of Arts; except that instead of *Latin* and *Greek*, the applicant may offer *Latin* and *French*, or *Latin* and *German* or *French* and *German*, in the amounts specified above.

For the present, either the *French* or the *German*, (but not both) required for admission may be begun at the University, but without University credits.

TO THE ENGLISH COURSE IN PHILOSOPHY

The requirements are the same as for admission to the Modern Language Course in Philosophy. But in place of one of the foreign languages the applicant may offer the following group:

1. *Chemistry*—Williams or Remsen.

2. *English Literature*—Pancoast's Introduction to English Literature and an acquaintance with representative works in each period; or, *English History*—Montgomery.

3. *Physiology*—Martin (briefer course).

For the present, one modern language required for admission may be begun at the University, but without University credits.

TO THE COURSE IN SCIENCE

The requirements are the same as for admission to the Modern Language Course in Philosophy.

COURSE IN ARTS

NOTE—The figure in parenthesis following the name of each study indicates the number of that study in its department. A full description of department work follows this statement of Courses

Degree: Bachelor of Arts

FIRST YEAR

FIRST SEMESTER	Credit hours	SECOND SEMESTER	Credit hours
Greek (51) Xenophon.	4.	Greek (52) Herodotus, History	4
Latin (51) Cato, Cicero.	4.	Latin (52) Livy, Horace.	4.
Mathematics (51, 53) Trigonometry, Plane Analytics	3.	Mathematics (52, 54) Calculus, Algebra.	3.
Rhetoric (51) Paragraph Writing.	2.	Rhetoric (52) Practical Rhetoric.	2.
Cadet Service (men)* Hygiene and Phys. Train. (women).		Cadet Service (men.) Hygiene and Phys. Train. (women.)	

One of the following (the choice being for the year):

Botany (57) Laboratory.	3.	Botany (58) Laboratory.	3.
Botany (55) Systematic and Physiological.	4.	Zoology (64) Comparative.	4.
General Chemistry (51) Inorganic.	3.	General Chemistry (52) Inorganic.	3.
Physics (51) or (53) Mechanics, Heat, etc.	3.	Physics (52) or (54) Electricity, Magnetism, etc.	3.
Zoology (51) Comparative Zoology.	3.	Zoology (52) Comparative Zoology.	3.

*A rule of the Board of Trustees requires each male student (except students in the College of Law) to render two years' cadet service as a condition of graduation. Students physically incapacitated for cadet service will be assigned an equivalent in special gymnasium work. The President has authority to excuse from cadet-service, under certain conditions.

Young women are required to carry Hygiene and Physical Training in place of cadet service.

SECOND YEAR

FIRST SEMESTER	Credit hours	SECOND SEMESTER	Credit hours
Greek (53) Lysias,	4.	Greek (54) Homer.	4.
†History (55) United States or	4.	History (56) United States or	4.
†Economics (51) Elementary.		Economics (52) Elementary.	
Latin (53) Horace, Pliny.	4.	Latin (54) Tacitus, Juvenal.	4.
English Literature (51) Introductory.	4.	Rhetoric (54) Analysis of Prose.	4.
Cadet Service (men). Hygiene and Phys. Train. (women).		Cadet Service (men). Hygiene and Phys. Train. (women).	

THIRD YEAR

Philosophy (51) Psychology.	4.	Philosophy (52) Logic and Ethics.	4.
*Major Study.	4.	Major Study.	4.

ELECTIVE

Eight hours a week through the year—chosen from the courses in this College ; *except* that not earlier than the third year :

First : Studies equivalent to five hours a week for one year may be chosen from any course or courses taught in the University ; provided that the studies chosen are such as the student is qualified to pursue.

Second : Additional studies equivalent to five hours a week for one year may be chosen by students in the course in Science from the courses taught in the College of Engineering.

FOURTH YEAR

*Major Study.	5.	Major Study.	5.
Electives (as in third year).	10.	Electives (as in third year).	10.

THESIS

As a requisite for graduation each candidate must present an acceptable thesis embodying the results of a special research. The subject of the research must lie in one of the branches (other than science) in which the candidate has studied during either of the last two years prior to graduation. The subject, together with a written approval of it by the head of the department within which it lies, must be submitted to the President of the University, not later than the beginning of the second term of the Senior year. The completed thesis must be submitted not later than the second Saturday before Commencement Day.

*Major Study. Not later than the beginning of the Third Year, each student shall elect a Major Study in one department or with the consent of the professors in charge, in allied departments in this college. To the Major Study he shall devote not less than four nor more than ten hours a week during the third year, and not less than five nor more than ten during the fourth year. With the approval of the proper authority, the Major Study may be entered upon in the Second year; an equivalent amount of the required work of that year, not in the line of the Major Study, being postponed to the third year; but the amount so postponed shall not exceed four hours a week. In this case, the elective work of the third year will be reduced by a like amount.

†The subject not taken the first Semester will be taken the second.

LATIN COURSE IN PHILOSOPHY

Degree: Bachelor of Philosophy.

FIRST YEAR

FIRST SEMESTER	Credit hours	SECOND SEMESTER	Credit hours
French (51) Elementary. or	4.	French (52) Prose and Plays. or	4.
German (51) Elementary.		German (52) Elementary.	
Latin (51) Cato, Cicero.	4.	Latin (52) Livy, Horace.	4.
Mathematics (51, 53) Trigonometry, Plane Analytics.	3.	Mathematics (52, 54) Calculus, Algebra.	3.
Rhetoric (51) Paragraph Writing.	2.	Rhetoric (52) Practical Rhetoric.	2.
Cadet Service (men). Hygiene and Phys. Train. (women).		Cadet Service (men). Hygiene and Phys. Train. (women).	

One of the following (the choice being for the year):

Botany (57) Laboratory.	3.	Botany (58) Laboratory.	3.
Botany (55) Systematic and Physiological.	4.	Zoology (64) Comparative.	4.
General Chemistry (51) Inorganic.	3.	General Chemistry (52) Inorganic.	3.
Physics (51) or (53) Mechanics, Heat, etc.	3.	Physics (52) or (54) Electricity, Magnetism, etc.	3.
Zoology (51) Comparative Zoology	3.	Zoology (52) Comparative Zoology.	3.

SECOND YEAR

FIRST SEMESTER	Credit hours	SECOND SEMESTER	Credit hours
French (55) Modern Literature. or German (55) Literature.	4.	French (56) Modern Literature. or German (56) Lyrics.	4.
*History (55) United States or *Economics (51) Elementary.		History (56) United States or Economics (52) Elementary.	
Latin (53) Horace, Pliny.	4.	Latin (54) Tacitus, Juvenal.	4.
*English Literature (51) Introductory.	4.	Rhetoric (54) Analysis of Prose.	4.
Cadet Service (men). Hygiene and Phys. Train. (women).		Cadet Service (men). Hygiene and Phys. Train. (women).	

THIRD YEAR

Philosophy (51) Psychology.	4.	Philosophy (52) Logic and Ethics.	4.
Major Study.	4.	Major Study.	4.

ELECTIVE.

Eight hours a week through the year—chosen from the courses in this College, *except* that not earlier than the third year:

First: Studies equivalent to five hours a week for one year may be chosen from any course or courses taught in the University; provided that the studies chosen are such as the student is qualified to pursue.

Second; Additional studies equivalent to five hours a week for one year may be chosen by students in the course in Science from the courses taught in the College of Engineering.

FOURTH YEAR

Major Study.	5.	Major Study.	5.
Electives (as in third year).	10.	Electives (as in third year).	10.

THESIS.

As a requisite for graduation each candidate must present an acceptable thesis, embodying the results of a special research. The subject of the research must lie in one of the branches (other than science) in which the candidate has studied during either of the last two years prior to graduation. The subject, together with a written approval of it by the head of the department within which it lies, must be submitted to the President of the University, not later than the beginning of the second term of the Senior year. The completed thesis must be submitted not later than the second Saturday before Commencement Day.

*The subject not taken the first semester, to be taken the second semester.

MODERN LANGUAGE COURSE IN PHILOSOPHY

Degree: Bachelor of Philosophy

FIRST YEAR

FIRST SEMESTER	Credit hours	SECOND SEMESTER	Credit hours
French	4.	French	4
German	4.	German	4.
Mathematics (51, 53) Trigonometry, Plane Analytics.	3.	Mathematics (52, 54) Calculus, Algebra.	3.
Rhetoric (51) Paragraph Writing	2.	Rhetoric (52) Practical Rhetoric.	2.
Cadet Service (men).		Cadet Service (men).	
Hygiene and Phys. Train. (women).		Hygiene and Phys. Train. (women).	

One of the following (the choice being for the year):

Botany (57) Laboratory	3.	Botany (58) Laboratory.	3.
Botany (55) Systematic and Physiological	4.	Zoology (64)	4.
General Chemistry (51) Inorganic.	3.	General Chemistry (52) Inorganic.	3.
Physics (51) or (53) Mechanics, Heat, etc.	3.	Physics (52) or (54) Electricity, Magnetism, etc.	3.
Zoology (51) Comparative Zoology.	3.	Zoology (52) Comparative Zoology.	3.

SECOND YEAR

French	4.	French	4.
German	4.	German	4.
+History (55) United States or +Economics (51) Elementary.	4.	History (56) United States or Economics (52) Elementary.	4.
Rhetoric (53) Analysis of Prose	4.	English Literature (52) Introductory.	4.
Cadet Service (men). Hygiene and Phys. Train. (women).		Cadet Service (men). Hygiene and Phys. Train. (women)	

†The subject not taken the first semester, will be taken the second semester.

THIRD YEAR

FIRST SEMESTER	Credit hours	SECOND SEMESTER	Credit hours
Philosophy (51) Psychology.	4.	Philosophy (52) Logic and Ethics.	4.
Major Study	4.	Major Study	4.

ELECTIVE

Eight hours a week through the year—chosen from the courses in this College, *except* that not earlier than the third year:

First: Studies equivalent to five hours a week for one year may be chosen from any course or courses taught in the University; provided that the studies chosen are such as the student is qualified to pursue.

Second: Additional studies equivalent to five hours a week for one year may be chosen by students in the course in Science from the courses taught in the College of Engineering.

FOURTH YEAR

Major Study.	5.	Major Study.	5.
Electives (as in third year).	10.	Electives (as in third year).	10.

THESIS

As a requisite for graduation each candidate must present an acceptable thesis embodying the results of a special research. The subject of the research must lie in one of the branches (other than science) in which the candidate has studied during either of the last two years prior to graduation. The subject must be announced to the President of the University (dependent upon the written approval of the head of the department within which it lies), not later than the beginning of the second term of the Senior year. The completed thesis must be submitted not later than the second Saturday before commencement Day.

ENGLISH COURSE IN PHILOSOPHY

Degree: Bachelor of Philosophy

FIRST YEAR

FIRST SEMESTER	Credit hours	SECOND SEMESTER	Credit hours
Elocution and Oratory (51)	2.	Elocution and Oratory (52)	2.
French (51)	4	French (52)	4
Elementary or German (51)		Prose and Plays or German (52)	
Elementary		Elementary	
History (51)	3.	History (52)	3.
European		European	
Mathematics (51), (53)	3.	Mathematics (52, 54)	3.
Trigonometry, Plane Analytics.		Calculus, Algebra	
Rhetoric (51)	2.	Rhetoric (52)	2.
Paragraph Writing		Practical Rhetoric	
Cadet Service (men)		Cadet Service (men)	
Hygiene and Phys. Train (women)		Hygiene and Phys. Train (women).	

One of the following (the choice being for the year):

Botany (57)	3.	Botany (58)	3.
Laboratory.		Laboratory.	
Botany (55)	4.	Zoology (64)	4.
Systematic and physiological.		Comparative.	
General Chemistry (51)	3.	General Chemistry (52)	3.
Inorganic.		Inorganic	
Physics (51) or (53)	3.	Physics (52) or (54)	3.
Mechanics, Heat, etc.		Electricity, Magnetism, etc.	
Zoology (51)	3.	Zoology (52)	3.
Comparative Zoology.		Comparative Zoology.	

SECOND YEAR

English Language (51)	2.	English Language (52)	2.
Old English.		Old English.	
French (55)	4	French (56)	4
Modern Literature		Modern Literature	
or		or	
German (55)		German (56)	
Literature.		Lyrics.	
+History (55)	4	History (56)	4
United States		United States	
or		or	
+Economics (51)		Economics (52)	
Elementary.		Elementary.	
Philosophy (53)	3.	Philosophy (54)	3.
Rhetoric (53)	4.	English Literature (52)	4.
Analysis of Prose.		Introductory.	
Cadet Service (men).		Cadet Service (men).	
Hygiene and Phys. Train. (women).		Hygiene and Phys. Train. (women).	

THIRD YEAR

Philosophy (55)	3.	Philosophy (56)	3.
Major Study	4.	Major Study.	4.

+This subject not taken the first semester will be taken the second.

ELECTIVE

Eight hours a week through the year-chosen from the courses in this College, *except* that not earlier than the third year:

First: Studies equivalent to five hours a week for one year may be chosen from any course or courses taught in the University: provided that the studies chosen are such as the student is qualified to pursue.

Second: Additional studies equivalent to five hours a week for one year may be chosen by students in the course in Science from the courses taught in the College of Engineering.

FOURTH YEAR

FIRST SEMESTER	Credit hours	SECOND SEMESTER	Credit hours
Major Study	5	Major Study	5
Electives (as in third year)	10	Electives (as in third year)	10

THESIS

At the beginning of the Senior year, each student in this Course will take up as thesis work some special line of inquiry within the field of his major study, subject to the approval of the professor in charge of the department, and must devote to it two hours per week, or its equivalent, independently of his other work. The subject, together with a written approval of it by the head of the department within which it lies, must be submitted to the President of the University, not later than the beginning of the second term of the Senior year. The completed thesis must be submitted not later than the second Saturday before Commencement Day.

COURSE IN GENERAL SCIENCE

Degree: Bachelor of Science

FIRST YEAR

Botany (55) Systematic and Physiological	4	Zoology (64) Comparative	4
French (51) Elementary or German (51) Elementary	4	French (52) Prose and Plays or German (52) Elementary	4
General Chemistry (51) Inorganic	3	General Chemistry (52) Inorganic	3
Mathematics (51), (53), (65), Trigonometry and Analytics, or Mathematics (55), (57), Trigonometry and Algebra	4 5	Mathematics (52), (54), (66) Calculus and Algebra or Mathematics (56), (58) Algebra and Analytics	4 5
Rhetoric (51) Paragraph Writing	2	Rhetoric (52) Practical Rhetoric	2
Cadet Service (men)		Cadet Service (men)	
Hygiene and Phys. Train. (women).		Hygiene and Phys. Train. (women).	

SECOND YEAR

FIRST SEMESTER	Credit hours	SECOND SEMESTER	Credit hours
Economics (51) Political Economy.	4.		
†French or †German	4.	French or German	4.
Physics (51) Mechanics, Heat, etc.	3.	Physics (52) Electricity, Magnetism, etc.	3.
Physiology (51) Human Anatomy.	3.	Physiology (52) Physiology.	3.
		Rhetoric (54) Analysis of Prose.	4.
Cadet Service (men) Hygiene and Phys. Train. (women)		Cadet Service (men) Hygiene and Phys. Train. (women).	

Together with one of the following subjects, to be continued through the year :

- (a) Botany (57), (58), each three hours credit, or (59), (60), each five hours credit for a semester. (b) General Chemistry (53), (54), each five hours credit. (c) Geology (51), (52), and Metallurgy (52), (Geology running for two-thirds of the year and Metallurgy for one-third : total, five hours credit for the year). (d) Mathematics (59), (61), (60), (62), each five hours credit for a semester. (e) Zoology (53), (54), each three hours credit, or (55), (56), each five hours credit.

THIRD YEAR

†Geology (if not taken the 2d year) General or †French or German	5.	Geology (if not taken the 2d year) General, and Astronomy (52) General, or Astronomy (54) Mathematical	5.
Philosophy (53)	3.	Philosophy (54)	3.
*Major Study	4.	Major Study	4.

Elective: Four hours a week through the year—chosen from the courses in this College, *except* that not earlier than the third year :

First: Studies equivalent to five hours a week for one year may be chosen from any courses taught in the University; provided that the studies chosen are such as the student is qualified to pursue.

Second: Additional studies equivalent to five hours a week for one year may be chosen in the College of Engineering.

Students intending to make Mathematics a specialty will take French or German the first semester and Mathematical Astronomy the second semester. All other students will take Geology and General Astronomy.

*Major Study. Not later than the beginning of the Third Year, each student shall elect a Major study in Mathematics or in a Science in which Laboratory instruction is given. This Major Study shall be in one department, or with the consent of the professors in charge, in two allied departments in this college. To the Major Study the student shall devote not less than four nor more than ten hours a week during the Fourth Year.

†In the Second Semester, Geology is followed by Astronomy, which occupies the last nine weeks of the Semester.

†It is desired that the student on completing this course, shall possess a good reading knowledge of both French and German. Therefore the student entering on both French and German will take both languages in the University, each for one year. He who enters on one Modern Language will continue that language one year in case he cannot read easy prose at sight, and take the other language for one year. In case a reading knowledge of one Modern Language is possessed, the student will take the other language two years. The third year of Language in the case of students making the Mathematics a specialty will be that language of which the student has the less knowledge.

FOURTH YEAR

Major Study: Five hours through the year.

Electives: Sufficient to make the work of each semester not less than fifteen nor more than eighteen hours.

THESIS

As a requisite for graduation each student must present an acceptable thesis embodying the results of a special research. The line of research must lie within the field of the major study, and is subject to the approval of the professor or professors having the major study in charge; and the student shall enter on this work not later than the beginning of the Senior year, and shall devote to it not less than two hours a week, or its equivalent, for one year, independently of his other work. The subject of thesis, together with a written approval of it by the professor or professors directing the investigation, must be submitted to the President of the University, not later than the beginning of the second term of the Senior year, and the completed thesis must be submitted not later than the second Saturday before Commencement Day. In case two or more students are pursuing the same major study, a joint research and thesis may be made.

THE SPECIAL COURSES

The University authorities offer these courses for the benefit of those who for any reason are not able to carry the regular work of the Colleges. Persons of mature years, and some others, who simply desire to increase their earning power or their chances of promotion, and have neither the time nor the means for thorough education and broad culture, have certain claims on the University which it is not at all inclined to neglect or deny. But these Special Courses are not to be compared in breadth, strength, or thoroughness with the full courses of the University. They are intended to be helpful to those who need this kind of assistance, or who are so unfortunately situated that they can accept no other. They are far better preparation for the work to which they lead than no preparation; but they must not be considered as complete substitutes for regular work with full time.

COURSE PREPARATORY TO LAW AND TO JOURNALISM

FOR ADMISSION

The requirements for admission to any of the four courses in the College of Arts, Philosophy and Science; except that the applicant must not be less than eighteen years of age.

FIRST YEAR

FIRST SEMESTER	Credit hours	SECOND SEMESTER	Credit hours
English Literature (51)	4.	Economics (52)	4.
Introductory.		Elementary.	
French (51)	} 4.	French (52)	} 4.
Elementary		Prose and Plays	
or		or	
German (51)		German (52)	
Elementary.		Prose and Plays	

FIRST YEAR—Concluded

FIRST SEMESTER	Credit hours	SECOND SEMESTER	Credit hours
History (51) European.	3.	History (52) European.	3.
Rhetoric (51) Paragraph Writing.	2.	Rhetoric (52) Theme Writing.	2.
Science, Elective.	3.	Science, Elective.	3.
Cadet Service (men.)		Cadet Service (men.)	
Hygiene and Physical Training (women.)		Hygiene and Physical Training (women.)	

SECOND YEAR

Economics (55) Practical Problems.	2.	Economics (56) Industrial and Social Reforms.	2.
Elocution (51)	2.	Elocution (52) Principles.	2.
English Literature, Elective.	2 or 3.	English Literature, Elective.	2 or 3.
History (53) England.	3.	History (54) England.	3.
History (55) United States.	4.	Rhetoric (54) Analysis and Prose.	4.
Philosophy (53) Psychology.	3.	Philosophy (54) Logic.	3.
Rhetoric (55) Newspaper Work.	1.	Rhetoric (56) Newspaper Work.	1.
Cadet Service (men.)		Cadet Service (men.)	
Hygiene and Physical Training (women.)		Hygiene and Physical Training (women.)	

NOTE.—A student desiring to continue French or German may substitute French (55 and 56), or German (55 and 56), for four hours of the studies of the second year. The studies thus deferred must be taken in the third year.

THIRD YEAR

Not less than sixteen nor more than seventeen hours a week, including studies deferred from the second year; selections to be made from the following, subject to the conditions named in the "Departments of Instruction." In view of the fact that this is a special course for special purposes, no substitutions or options further than those indicated below, will be permitted.

Economics (57) The Transportation Problem.	2.	Economics (56) Money and Banking.	2.
English Literature, Elective.	2 or 3.	English Literature, Elective.	2 or 3.
History (61) American History.	2.	History (62) American History.	2.
Pedagogy (57) History of Education in the United States.		Pedagogy (54) History of Education in the United States.	2.
Philosophy (55) Ethics.	3.	Philosophy (56) Modern.	3.
Political Science (51) International Law.	2.	Political Science (52) Municipal Government.	2.
Political Science (53) Institutions of the U. S.	3.	Political Science (54) Comparative Institutions	3.
Rhetoric (57) Brief Making and Argument.	3.	Rhetoric (58) Book Reviews and Criticism	3.
Rhetoric (59) Poetics and Verse Making.	2.	Rhetoric (60) Short Stories.	2.

COURSE PREPARATORY TO THE STUDY OF MEDICINE

FOR ADMISSION

Applicants must be at least seventeen years old, and must pass in *Grammar, Geography, Arithmetic, Algebra, (through quadratics), plane and solid Geometry, Physics, Rhetoric, U. S. History, and Botany, and either Astronomy, Civil Government or General History.*

FIRST YEAR

FIRST SEMESTER	Credit hours	SECOND SEMESTER	Credit hours
Botany (53) Systematic and Physiological.	4.	Botany (56) ($\frac{1}{2}$ Semester) Medical.	1
Latin (59) Pharmaceutical.	5.	Latin (60) Pharmaceutical.	5
Physics (53) Mechanics, Heat, etc.	3.	Physics (54) Electricity, Magnetism, etc.	3.
		Physics (60) Laboratory.	2.
		Physiology (58) ($\frac{1}{4}$ Semester) Microscopy	1.
Rhetoric (51) Paragraph Writing.	2.	Rhetoric (52) Analysis of prose.	2.
Zoology (51) Comparative.	3.	Zoology (52) Comparative.	3.
Cadet Service (men).		Cadet Service (men).	
Hygiene and Phys. Training (women).		Hygiene and Phys. Training (women).	

SECOND YEAR

French (51) Elementary or German (51) Elementary	} 4.	French (52) Prose and plays or German (52) Elementary.	} 4.
General Chemistry (51) Inorganic.		3. General Chemistry (52) Inorganic.	
Physiology (51) Human Anatomy.	3.	Physiology (52) Physiology.	3.
Rhetoric (63) Advanced Rhetoric.	2.	Rhetoric (64) Advanced Rhetoric.	2.
Zoology (55) Comparative Anatomy.	5.	Zoology (56) Comparative Anatomy.	5.
Cadet Service (men).		Cadet Service (men).	
Hygiene and Phys. Training (women).		Hygiene and Phys. Training (women).	

THIRD YEAR

French (53) Science Reading or German (54) Science Reading.	} 2.	French (64) Science Reading or German (54) Science Reading.	} 2.
Economics (51) Political Economy.		4.	
Philosophy (51) Philosophy.	4.	Philosophy (52) Logic and Ethics.	4.
Pharmacy (51) General.	3.	Pharmacy (52) General Laboratory.	5.
Physiology (55) Laboratory.	5.	Physiology (56) Laboratory.	5.

THE COLLEGE OF ENGINEERING

FOR ADMISSION TO THE FOUR-YEAR COURSES, AND TO THE COURSE IN
ARCHITECTURE¹

The following are the requirements:

1. *Arithmetic, Descriptive and Physical Geography, English Grammar, and United States History.*
2. *English*—(a) Composition and Rhetoric. Each applicant will be tested as to his ability to write clear and correct English. The test will be the writing of two essays of about two hundred words each. The first essay will be upon a subject drawn from the candidate's observation or experience; as "A description of my native town," "The most remarkable person I ever met," "My reasons for seeking a University education." The second essay will be upon a subject drawn from a list of classics which will be furnished on application.

The proper preparation for this requirement is sustained and regular practice in writing. The pupil should be afforded weekly practice in preparing written exercises—paragraphs, outlines, themes, reproductions and abstracts; and his written work should be corrected by the teacher and revised and rewritten by himself.

The pupil should be familiarized with those principles of Rhetoric which are most likely to help him in his composition work; such as the principles of sentential structure, outlining, paragraphing, and choice of words. The study of specimens of bad English is not recommended: the time usually devoted to this may be better spent in memorizing and reciting notable passages of prose and poetry selected from works read entire by the class. Exercises in speaking from a topical outline previously prepared by the class are recommended for drill in expression and choice of words.

The subjects for the weekly written exercises should be so distributed that the pupil will have practice in the four types—description, narration, exposition and argumentation. Some of these subjects should be taken from the classics prescribed below and from other classics, preferably by the same authors, prescribed for parallel or subsidiary outside reading by the class, but fully one-half of the subjects upon which the pupil writes during his preparatory course should be drawn from his own observation and experience, especially subjects in description and narration.

(b) *English Classics*—Questions will be set for the purpose of testing the applicant's knowledge of the subject-matter, form and substance, of the following books; with the plot, purpose, literary style and peculiarities, incidents, and characters of which the applicant should make himself thoroughly familiar.

1898. Milton's *Paradise Lost*, Books I and II; Pope's *Iliad*, Books I and XXII; Goldsmith's *The Vicar of Wakefield*; Southey's *Life of Nelson*; Lowell's *The Vision of Sir Launfal*; Hawthorne's *The House of the Seven Gables*.

1899. Chaucer's *The Knight's Tale*, or Dryden's *Palamon and Arcite*; Milton's *Paradise Lost*, Books I and II; Pope's *Iliad*, Books I, VI, XXII, and XXIV; The Sir Roger de Coverley Papers in *The Spectator*; Goldsmith's *The Vicar of Wakefield*; Scott's *Ivanhoe*; Cooper's *The Last of the Mohicans*; Lowell's *The Vision of Sir Launfal*; Hawthorne's *The House of Seven Gables*.

1900. Chaucer's *The Knight's Tale*, or Dryden's *Palamon and Arcite*; Milton's *Paradise Lost*, Books I and II; Pope's *Iliad*, Books I, IV, XXII, and XXIV; The Sir Roger de Coverley Papers in *The Spectator*; Goldsmith's *The Vicar of Wakefield*; Scott's *Ivanhoe*; Cooper's *The Last of the Mohicans*; Macaulay's *Essay on Milton*; Burke's *Conciliation with the Colonies*.

An applicant for admission who may be somewhat in arrears in any given subject, will find opportunity to make up this work in the Columbus High Schools, which are fully accredited by the University.

These or equivalent texts will require minute and critical study in class during at least one school year. The test here is the pupil's ability to analyze plot and character; to explain words, phrases and figures; to reproduce thought, to point out characteristics of style. Systematic class-room study of the texts themselves is the only adequate preparation. Literary history, literary biography and the comments of professional critics will not serve the purpose. The work in class should be intensive and disciplinary; there the distinction between the reading of literature and the study of classics should be sharply defined. Outside reading of other works, preferably by the same authors, is recommended, and should be prescribed as the basis of part of the composition work; but this general reading and composition work should not be regarded as an adequate substitute for the minute study of the few classics prescribed above, and will not be accepted as preparation for this part of the English requirement.

3. *Algebra*—Wentworth's or Wells's Elements, complete.
4. *Civil Government*—Fiske or Thorpe preferred.
5. *Geometry, Plane and Solid*—Venable, Wentworth, or Wells.
6. *History*—Myers's *General History*.
7. *Latin*—Pronunciation (the Roman method); Grammar (an exact knowledge of the inflections is essential); Cæsar, the first four books of the *De Bello Gallico*.
Or *French*—The whole subject of French Grammar. Applicants will be expected to read at sight easy French and to translate correctly into French simple English sentences. Two years ought to be given to this study, the first year being spent mainly on the Grammar with easy reading; the second devoted to reading good modern French, with grammatical analysis and exercises in writing. The texts read should be chiefly narrative and conversational prose; one or more prose comedies of the nineteenth (not the seventeenth) century should be included.
Or *German*—Joynes-Meissner's German Grammar, complete; Joynes's German Reader, complete; Hauff's *Liechtenstein*, Lessing's *Minna von Barnhelm*, Huss's *Sessenheim* and Buchheim's Goethe's *Dichtung und Wahrheit*.
For the present, the *German* or *French* required for admission may be begun at the University, but without University credits.
8. *Physics*—Gage, Carhart and Chute, Avery or Appleton; complete.

COURSE IN CHEMISTRY

Degree: Bachelor of Science in Chemistry, or in Metallurgy; according to electives chosen

The object of this course is to prepare students for work in Industrial Chemistry or Metallurgical Chemistry, according to electives chosen. With proper electives it will also be found a desirable course for students expecting to become general analytical chemists.

The electives are subject to the approval of the head of the department of Chemistry, or of Metallurgy and Mineralogy for students in Metallurgical Chemistry.

NOTE—The figure in parenthesis following the name of each study indicates the number of the study in its department. A full description of department work follows this statement of courses.

FIRST YEAR

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM.	Credit hours
Mathematics (14) Trigonometry.	5.	Mathematics (15) (16) Trigonometry, Algebra.	5.	Mathematics (17) Plane Analytics.	5.
Chemistry (7) Inorganic.	5.	Chemistry (7) Inorganic.	5.	Chemistry (12) Inorganic	5.
Rhetoric (1) Paragraph Writing.	2.	Rhetoric (1) Theme Writing.	2.	Rhetoric (1) Prose Analysis.	2.
German (1) or (4)	4.	German (1) or (4)	4.	German (1) or (4)	4.
Drawing (1) Freehand.	2.	Drawing (1) Freehand.	2.	Drawing (2) Lettering.	3.
Cadet Service.*		Cadet Service.		Cadet Service.	

SECOND YEAR

Chemistry (4) Quantitative.	5.	Chemistry (4) Quantitative.	5.	Chemistry (4) Quantitative	5.
Physics (2) Mechanics and Heat.	3.	Physics (2) Electricity and Magnetism	3.	Physics (2) Sound and Light.	3.
German (2) Scientific Reading.	2.	German (2) Scientific Reading.	2.	German (2) Scientific Reading	2.
Shopwork (1) Woodwork.	3.	Shopwork (1) Woodwork.	3.	Metallurgy (2) Mineralogy.	3.
Cadet Service.		Cadet Service.		Cadet Service.	

Electives three to five hours throughout the year.

The following are suggested: Mathematics (18, 19, 20), 5 hours; Drawing (3), 3 hours; Physiology (3), 3 hours; History (5), 4 hours; Economics (1), 4 hours.

THIRD YEAR

Metallurgy (5) Laboratory.	5.	Metallurgy (5) Laboratory.	5.	Metallurgy (5) Laboratory.	5.
Chemistry (8) Organic.	5.	Chemistry (9) Organic.	5.	Chemistry (9) Organic.	5.
Rhetoric (3) Advanced.	2.	Rhetoric (3) Advanced.	2.	Rhetoric (3) Advanced.	2.

Electives five to eight hours throughout the year.

The following are suggested: Physical Laboratory, 3 to 5 hours; Geology, 5 hours—or Geology and Determinative Mineralogy, 5 hours; Shopwork, 3 hours.

FOURTH YEAR

Metallurgy (4) Fuels and Useful Metals.	5.	Chemistry (16) Applied.	3.	Ceramics (16) Applied.	3.
Chemistry (17) Inorganic Preparations.	4.	Chemistry (14) Theoretical.	3.	Chemistry (15) Sanitary	4.
		Physiology (8) Bacteriology.	2.		

Students in Metallurgical Chemistry will take Ore Dressing the first term, and Metallurgy (4) 5, through the second term. For such students Chemistry (14, 15, 16) and Physiology (8) will not be compulsory.

Electives to make the total work equal sixteen or eighteen hours, including Thesis work.

*A rule of the Board of Trustees requires each male student (except students in the College of Law) to render two years' cadet service as a condition of graduation. Students physically incapacitated for cadet service will be assigned an equivalent in special gymnasium work. The President has authority to excuse from cadet service, under certain conditions.

COURSE IN CIVIL ENGINEERING

Degree: Civil Engineer

FIRST YEAR

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Drawing (1) Freehand.	2.	Drawing (1) Freehand.	2.	Drawing (2) Lettering.	3.
French (1) or German (1)	{ 4.	French (1) or German (1)	{ 4.	French (1) or German (1)	{ 4.
Gen. Chemistry (7) Inorganic.	5.	Gen. Chemistry (7) Inorganic.	5.	Metallurgy (2) Mineralogy.	3.
Mathematics (14) Trigonometry.	5.	Mathematics (15), (16) Trigonometry. Algebra.	2, 3.	Mathematics (17) Plane Analytics.	5.
Rhetoric (1) Paragraph writing.	2.	Rhetoric (1) Theme Writing.	2.	Rhetoric (1) Prose Analysis.	2.
Cadet Service.		Cadet Service.		Cadet Service.	

SECOND YEAR

Civil Engineering (1) Surveying.	6.	Civil Engineering (4) C. E. Drawing.	4.	Civil Engineering (2) Surveying.	6.
Drawing (3) Projections.	3.	Drawing (3) Descriptive Geometry.	5.	Drawing (3) Shades, Shadows and Per	3.
Mathematics (18) Space Analy. and Calculus.	5.	Mathematics (19) Calculus.	5.	Mathematics (20) Calculus.	5.
Physics (2) Mechanics and Heat.	3.	Physics (2) Electricity and Magnetism.	3.	Physics (2) Light and Sound.	3.
Cadet Service.		Cadet Service.		Cadet Service.	

VOLUNTARY

French (3)	2.	or German (2) Each for the year.	2.	or Rhetoric (4)	2.
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THIRD YEAR

Civil Engineering (3) Surveying.	4.	Civil Engineering (5) C. E. Drawing.	3.	Astronomy (2) Mathematical.	4.
Geology (2) General.	5.	Civil Engineering (6) Stereotomy.	4.	Civil Engineering (7) Bridge Strains.	5.
Mathematics (8) Least Squares.	2.	Geology (2) General.	5.	Drawing (7) Photography.	2.
Mech. Engineering (6) Mechanics.	5.	Mech. Engineering (6) Mechanics.	5.	Mech. Engineering (7) Strength of Materials.	5.
Rhetoric (3) Advanced.	2.	Rhetoric (3) Advanced.	2.	Rhetoric (3) Advanced.	2.

FOURTH YEAR

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Astronomy (2)	4	Civil Engin'g (16) or (17)	5	Civil Engineering (10)	5
Mathematical.		Masonry, Railways		Sanitary Engineering	
		Civil Engineering (14)	2		
		Testing Laboratory			
Civil Engineering (8)	5	Civil Engineering (18)	5		
Bridge Designing.		Water Supply			
Civil Engineering (15)	5	Elec Engineering (5)	4	Geology (3)	5
Masonry		Laboratory		Economic.	
Elec. Engineering (5)	4	Mech Engineering (17)	3	Mech Engineering (25)	3.
Laboratory		Laboratory		Laboratory	

THESIS

As a requisite for graduation, each candidate must present an acceptable thesis, embodying the results of a special study. The subject of this study must lie within the field of Civil Engineering. The subject must be announced to the President of the University (dependent upon the approval of the head of the Department) not later than the beginning of the second term of the Senior Year, and the completed thesis must be submitted not later than the second Saturday before Commencement Day.

COURSE IN CLAY-WORKING AND CERAMICS

Degree: Engineer of Mines in Ceramics.

FIRST YEAR

Drawing (1)	2	Drawing (1)	2	Drawing (2)	3
Freehand.		Freehand		Lettering	
Gen Chemistry (7)	5	Gen Chemistry (7)	5	Metallurgy (2)	3
Inorganic.		Inorganic		Mineralogy	
German (1)	4	German (1)	4	German (1)	4.
Elementary.		Elementary		Elementary	
Mathematics (14)	5	Mathematics (15) or (16)	2, 3	Mathematics (17)	5.
Trigonometry.		Trigonometry Algebra.		Plane Analytics	
Rhetoric (1)	2	Rhetoric (1)	2	Rhetoric (1)	2.
Paragraph Writing		Theme Writing		Prose Analysis.	
Cadet Service		Cadet Service		Cadet Service	

SECOND YEAR

Ceramics 1	5.	Ceramics (2)	5.	Ceramics 3)	5
		(Chemical Laboratory extending through year)			
Drawing (3)	3	Drawing (3)	3.	Drawing (3)	3
Projections		Descriptive Geometry		Shades, Shadows and Per	
Mathematics 18)	5	Mathematics (19)	5	Mathematics (20)	5.
Analytics and Calculus.		Calculus.		Calculus.	
Physics (2)	3	Physics (2)	3	Physics (2)	3.
Mechanics and Heat		Electricity and Magnetism.		Light and Sound	
Shopwork (1)	2	Shopwork (2)	2	Shopwork (4)	2
Woodwork.		Forging		Chipping and Filing.	
Cadet Service		Cadet Service		Cadet Service.	

VOLUNTARY

French (3)	2	or German (2)	2	or Rhetoric (4)	2.
		Each through the year.			

THIRD YEAR

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Ceramics (4) General principles	5	Ceramics (5) Bricks	5	Ceramics (6) Pottery	5
Mine Engineering (4) Mine Surveying.	5	Ceramics (7) Advanced Chemical Laboratory Work.	5	Ceramics (8) Advanced Chemical Laboratory Work	5
Mech. Engineering (6) Analytic Mechanics	5	Mech. Engineering (6) Analytic Mechanics	5	Mech. Engineering (7) Strength of Materials	5
Rhetoric (3) Advanced.	2	Rhetoric (3) Advanced	2	Rhetoric (3) Advanced	2

FOURTH YEAR.

Ceramics (9) Manufacture of Bodies	5.	Ceramics (10) Glasses and Glazes.	5	Ceramics (11) Enamels and Colors.	5
Drawing (7) Photography	2	Ceramics (12) Cement.	5	Ceramics (14) Reports on Clay Prop	5
Geology (2) General.	5	Ceramics (13) Ceramic Construction	2	Ceramics (15) Thesis Work	5.
Metallurgy (4) Fuels and Iron.	5	Geology (3) Economic	5.		

THESIS

As a requisite for graduation, each candidate must present an acceptable thesis, embodying the results of a special study. The subject of this study must lie within the field of Ceramic Engineering. The subject must be announced to the President of the University (dependent upon the approval of the head of the Department), not later than the beginning of the second term of the Senior Year; and the completed thesis must be submitted not later than the second Saturday before Commencement Day.

COURSE IN ELECTRICAL ENGINEERING

Degree: Mechanical Engineer in Electrical Engineering.

FIRST YEAR

Drawing (1) Freehand.	2	Drawing (1) Freehand	2	Drawing (2) Lettering.	3.
French (1) or German (1)	{ 4	French (1) or German (1)	{ 4.	French (1) or German (1)	{ 4.
Gen. Chemistry (7) Inorganic	5	Gen. Chemistry (7) Inorganic	5.	Shopwork (1) Carpentry and Pattern Making.	4.
Mathematics (14) Trigonometry	5	Mathematics (15), (16) Trigonometry Algebra	2, 3	Mathematics (17) Plane Analytics.	5
Rhetoric (1) Paragraph Writing.	2	Rhetoric (1) Theme Writing.	2	Rhetoric (1) Prose Analysis.	2
Cadet Service		Cadet Service		Cadet Service	

SECOND YEAR

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Drawing (3) Projections.	3.	Drawing (3) Descriptive Geometry	3.	Drawing (3) Shades, Shadows and Per.	3.
Mathematics (18) Analytics and Calculus.	5.	Mathematics (19) Calculus	5.	Mathematics (20) Calculus	5.
Physics (2) Mechanics	3.	Physics (2) Electricity, Magnetism.	3.	Physics (2) Light, Sound.	3.
Physics (3) Problems.	2.	Physics (3) Problems	2.	Physics (3) Problems.	2.
Rhetoric (3) Advanced.		Physics (5) Laboratory	3.	Physics (5) Laboratory.	3.
Shopwork (2) Forging.	2.	Rhetoric (3) Advanced.	2.	Rhetoric (3) Advanced.	2.
Shopwork (4) Chipping and Filing.	2.	Shopwork (4) Machine Work.	2.		
Cadet Service.	2.	Cadet Service.		Cadet Service.	

VOLUNTARY

French (3)	2.	or German (2) Each for the year.	2.	or Rhetoric (4)	2.
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THIRD YEAR

Drawing (5) Technical.	3.	Shopwork (6) Advanced Machine Work.	4.	Mech. Engineering (19) Machine Design.	5.
Mathematics (11) Differential Equations.	1.	Mech. Engineering (3) Mechanism.	5.	Mech. Engineering (16) Laboratory.	4.
Mech. Engineering (6) Mechanics.	5.	Mech. Engineering (6) Mechanics	5.	Mech. Engineering (7) Strength of Materials	5.
Physics (6) Laboratory.	5.	Physics (6) Laboratory.	5.	Physics (6) Laboratory.	5.
Physics (4) Electricity and Magnetism.	3.				

FOURTH YEAR

Elec. Engineering (2) Elec. Machinery.	5.	Elec. Engineering (2) Elec. Machinery.	5.	Elec. Engineering (2) Elec. Machinery.	5.
Elec. Engineering (3) Designing and Drawing.	3.	Elec. Engineering (3) Designing and Drawing.	3.	Elec. Engineering (3) Designing and Drawing	3.
Elec. Engineering (4) Laboratory.	5.	Elec. Engineering (4) Laboratory and Thesis.	5.	Elec. Engineering (4) Laboratory and Thesis.	5.
Mech. Engineering (8) Thermodynamics.	5.	Mech. Engineering (9) Prime Movers.	5.	Mech. Engineering (10) Steam Boilers.	5.

THESIS

As a requisite for graduation, each candidate must present an acceptable thesis, embodying the result of a special study. The subject of such study must lie within the field of Electrical Engineering. The subject must be announced to the President of the University (dependent upon the written approval of the head of the department) not later than the beginning of the second term of the Senior Year, and the completed thesis must be submitted not later than the second Saturday before Commencement Day.

COURSE IN INDUSTRIAL ARTS

Degree: Bachelor of Science in Industrial Arts.

FIRST YEAR

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Drawing (1) Freehand.	1.	Drawing (1) Freehand	1.	Drawing (1) Freehand	1.
Drawing (8) Geometric.	2.	Drawing (8) Projections.	2.	Drawing (2) Lettering	2.
Mathematics (14) Plane Trigonometry.	5.	Mathematics (15), (16) Trigonometry. Algebra	2, 3.	Mathematics (17) Plane Analytics.	5.
Rhetoric (1) Paragraph Writing.	2.	Rhetoric (1) Theme Writing.	2.	Rhetoric (1) Prose Analysis	2.
Shop Work (1) Carpentry and Pattern Making	3.	Shop Work (1) Carpentry and Pattern Making	3.	Shop Work (1) Carpentry and Pattern Making	3.
Cadet Service		Cadet Service.		Cadet Service.	

Electives, three to five hours—any work upon which the student is qualified to enter, in any College except the College of Law.

SECOND YEAR

Drawing (3) Mechanical.	3.	Drawing (3) Mechanical	3.	Drawing (3) Mechanical.	3.
Physics (2) Mechanics and Heat.	3.	Physics (2) Electricity.	3.	Physics (2) Sound and Light.	3.
Rhetoric (3) Advanced.	2.	Rhetoric (3) Advanced.	2.	Rhetoric (3) Advanced.	2.
Shop Work (2) Forging.	3.	Shop Work (2) Forging.	3.	Shop Work (3) Foundry.	3.
Cadet Service.		Cadet Service.		Cadet Service.	

Electives, six to eight hours—any work upon which the student is qualified to enter, in any College except the College of Law.

THIRD YEAR

Drawing (5) Technical.	3.	Industrial Arts (2) Tech. Drawing	3.	Industrial Arts (2) Tech. Drawing.	3.
Industrial Arts (1) Tools and Machines.	3.	Industrial Arts (1) Tools and Machines.	4.	Industrial Arts (1) Tools and machines.	3.
Shop Work (4) Chipping and filing.	3.	Shop Work (5) Machine Work.	3.	Shop Work (5) Machine Work.	3.

Electives, eight to ten hours—any work upon which the student is qualified to enter, in any College except the College of Law.

FOURTH YEAR

Industrial Arts (3) Shop Equipment.	3.	Industrial Arts (3) Shop Appliances.	3.	Industrial Arts (3) Shop Management.	3.
Industrial Arts (4) Tech. Drawing.	3.	Industrial Arts (4) Tech. Drawing.	3.	Industrial Arts (4) Tech. Drawing.	3.
Shop Work (6) Machine Work.	3.	Shop Work (6) Machine Work.	3.	Shop Work (6) Machine Work.	3.

Electives, eight to ten hours,—any work upon which the student is qualified to enter, in any College except the College of Law. At some time during the Course, the student must elect in Chemistry the equivalent of at least five hours for two terms.

THESIS

As a requisite for graduation, each candidate must present an acceptable thesis embodying the results of a special study. The subject of such study must lie within the field of Industrial Arts. The subject must be announced to the President of the University (dependent upon the written approval of the head of the department) not later than the beginning of the second term of the Senior Year, and the completed thesis must be submitted not later than the second Saturday before Commencement Day.

COURSE IN MECHANICAL ENGINEERING

Degree: Mechanical Engineer.

FIRST YEAR

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Drawing (1) Freehand.	2.	Drawing (1) Freehand	2.	Drawing (2) Lettering	3
French (1) or German (1)	4.	French (1) or German (1)	4.	French (1) or German (1)	4.
Gen. Chemistry (7) Inorganic.	5.	Gen. Chemistry (7) Inorganic	5	Shopwork (1) Carpentry and Pattern Making	4.
Mathematics (14) Trigonometry	5	Mathematics (15) (16) Trigonometry. Algebra.	2, 3.	Mathematics (17) Plane Analytics.	5.
Rhetoric (1) Paragraph Writing.	2.	Rhetoric (1) Theme Writing	2.	Rhetoric (1) Prose Analysis	2.
Cadet Service.		Cadet Service.		Cadet Service.	

SECOND YEAR

Drawing (3) Projections	3	Drawing (3) Des. Geometry	3.	Drawing (3) Shades, Shadows & Per	3
Mathematics (18) Analytics and Calculus.	5.	Mathematics (19) Calculus	5	Mathematics (20) Calculus.	5
Physics (2) Mechanics and Heat	3	Physics (2) Electricity and Magnetism.	3.	Physics (2) Sound and Light	3
		Physics (7) Laboratory	2.	Physics (7) Laboratory	3
Rhetoric (3) Advanced.	2.	Rhetoric (3) Advanced	2.	Rhetoric (3) Advanced.	2.
Shopwork (2, 3) Forging and Foundry	5.	Shopwork (4) Chipping and Filing.	3.	Shopwork (5) Machine work	3.
Cadet Service		Cadet Service		Cadet Service	

VOLUNTARY.

French (3)	2.	or German (2)	2.	or Rhetoric (4)	2.
Each for the year					

THIRD YEAR

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Drawing (5) Technical.	3.	Mech. Engineering (6) Mechanics.	5.	Drawing (7) Photography.	2.
Mathematics (11) Differential Equations	1.	Mech. Engineering (22) Timber and Masonry.	3.	Civil Engineering (19) Bridge Strains.	5.
Mech. Engineering (6) Mechanics.	5.	Mech. Engineering (3) Mechanism.	5.	Mech. Engineering (7) Strength of Materials.	5.
Metallurgy (4) Useful metals	5.	Metallurgy (4) Useful Metals	2.		
Shopwork (6) Advanced Machine Work.	3.	Shopwork (6) Advanced Machine Work.	4.	Mech. Engineering (3) Mechanism.	2.
Mech. Engineering (12) Laboratory.	2.			Mech. Engineering (19) Machine Design.	5.

FOURTH YEAR

Elec. Engineering (5) Laboratory.	4.	Elec. Engineering (5) Laboratory.	4.	Industrial Arts (5) Shop Appliances.	3.
Mech. Engineering (13) Laboratory.	4.			Mech. Engineering (10) Steam Boilers.	5.
Mech. Engineering (8) Thermodynamics.	5.	Mech. Engineering (9) Prime Movers.	5.	Mech. Engineering (15) Laboratory.	3.
		Mech. Engineering (14) Laboratory.	4.	Mech. Engineering (20) Hydraulic Mach.	2.
Mech. Engineering (18) Mach. Design.	5.	Mech. Engineering (18) Mach. Design.	5.	Mech. Engineering (21) Thesis Work.	5.

THESIS

As a requisite for graduation, each candidate must present an acceptable thesis embodying the results of a special study. The subject of such study must lie within the field of Mechanical Engineering. The subject must be announced to the President of the University (dependent upon the written approval of the head of the department) not later than the beginning of the second term of the Senior Year, and the completed thesis must be submitted not later than the second Saturday before Commencement Day.

COURSE IN MINE ENGINEERING

Degree: Engineer of Mines.

FIRST YEAR

Drawing (1) Freehand.	2.	Drawing (1) Freehand.	2.	Drawing (2) Lettering.	3.
French (1) or German (1)	{ 4.	French (1) or German (1)	{ 4.	French (1) or German (1)	{ 4.
General Chemistry (7) Inorganic.	5.	General Chemistry (7) Inorganic.	5.	Metallurgy Mineralogy	3.
Mathematics (14) Trigonometry.	5.	Mathematics (15) (16) Trigonometry. Algebra	2 3.	Mathematics (17) Plane Analytics.	5.
Rhetoric (1) Paragraph Writing	2.	Rhetoric (1) Theme Writing.	2.	Rhetoric (1) Prose Analysis.	2.
Cadet Service.		Cadet Service.		Cadet Service.	

SECOND YEAR

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Drawing (3) Projections	3	Drawing (3) Descriptive Geometry	3	Drawing (3) Shades, Shadows and Per	3
Mathematics (18) Analytics and Calculus	5	Mathematics (19) Calculus	5	Mathematics (20) Calculus.	5
Metallurgy (5) Laboratory.	5	Metallurgy (5) Laboratory	5	Metallurgy (5) Laboratory.	5
Physics (2) Mechanics and Heat	3	Physics (2) Electricity and Magnetism	3	Physics (2) Light and Sound.	3
Shopwork (1) Woodwork.	2	Shopwork (2) Forging	2	Shopwork (4) Chipping and Filing	2
Cadet Service.		Cadet Service		Cadet Service.	

VOLUNTARY

French (3)	2	or German (2) Each for the year	2	or Rhetoric (4)	2
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THIRD YEAR

Mech. Engineering (6) Mechanics	5	Mech. Engineering (6) Mechanics.	5	Mech. Engineering (7) Strength of Materials	5
Metallurgy (4) Useful Metals.	5	Metallurgy (4) Useful Metals	5	Civil Engineering (19) Bridge Strains	5
Mine Engineering (1) Mine Surveying	5	Metallurgy (6) Assaying	5	Metallurgy (3) Deter Mineralogy	5
Rhetoric (3) Advanced	2	Rhetoric (3) Advanced	2	Rhetoric (3) Advanced.	2

FOURTH YEAR

Elec. Engineering (5) Laboratory.	4	Elec. Engineering (5) Laboratory	4	Geology (3) Economic	5
Geology (2) General	5	Geology (2) General.	5	Mine Engineering (6) Plans and Specifications	5
Mine Engineering (5) Mine Engineering	5	Metallurgy (7) Metal Construction	3	Mine Engineering (5) Mine Engineering	5
Metallurgy (8) Ore Dressing	2	Mine Engineering (5) Mine Engineering	5	Drawing (7) Photography	2

THESIS

As a requisite for graduation, each candidate must present an acceptable thesis, embodying the results of a special study. The subject of such study must lie within the field of Metallurgy or of Mine Engineering. The subject must be announced to the President of the University (dependent upon the written approval of the head of the department) not later than the beginning of the second term of the Senior Year; and the completed thesis must be submitted not later than the second Saturday before Commencement Day

COURSE IN ARCHITECTURE

FIRST YEAR

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Drawing (1) Freehand.	3.	Drawing (1) Freehand.	3.	Drawing (1) Water color.	3
Gen. Chemistry (7) Inorganic	5	Gen. Chemistry (7) Inorganic	5	Drawing (2) Lettering.	3.
Mathematics (14) Plane Trigonometry	5.	Mathematics (15, 16) Trigonometry. Algebra.	2.3	Mathematics (17) Plane Analytics.	5.
Rhetoric (1) Paragraph Writing.	2.	Rhetoric (1) Theme Writing	2	Rhetoric (1) Prose Analysis.	2.
Shopwork (1) Carpentry and Pattern Making	3.	Shopwork (1) Carpentry and Pattern Making.	3	Shopwork (1) Carpentry and Pattern Making.	3.
Cadet Service		Cadet Service.		Cadet Service	

SECOND YEAR.

Drawing (7) Photography	2	Architecture (1) Orders.	5	Architecture (2) Styles	5.
Drawing (3) Projections	3.	Drawing 3. Descriptive Geometry	5	Drawing (3) Shades, Shadows and Per	5.
Drawing (14) Pen.	2	Drawing (12) Clay Modelling	2.	Drawing (12) Clay Modelling.	2.
Greek (1) Ancient Art.	2.	Greek (1) Ancient Art.	2.	Greek (1) Ancient Art.	2.
Physics (2) Mechanics and Heat	3.	Physics (2) Electricity and magnetism	3.	Physics (2) Light and Sound.	3.
Mechanical Eng. (23) Materials of Construction	5				
Cadet Service.		Cadet Service.		Cadet Service.	

THIRD YEAR.

Architecture (3) Designing	5.	Architecture (3) Designing	5.	Architecture (3) Designing.	5.
Architecture (4) Specifications.	2	Architecture (5) Decorations.	3	Architecture (6) Estimates	4.
Civil Engineering (15) Masonry.	5.	Architecture (7) Heating.	5.	Architecture (8) Designing	5.
Civil Engineering (20) Roof Trusses.	5.	Civil Engineering (6) Stereotomy	4	Civil Engineering (21) Surveying.	3.

CATALOGUE

THE SHORT COURSES

ADMISSION TO THE SHORT COURSE IN CLAY-WORKING AND CERAMICS, IN INDUSTRIAL ARTS, AND IN MINING.

Applicants must be not less than sixteen years of age, and unless they are over twenty-one years of age must pass an examination in *Arithmetic, Geography, Grammar* and *Orthography*, or bring High School or other certificates for these branches.

SHORT COURSE IN CLAY-WORKING AND CERAMICS

FIRST YEAR

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Gen. Chemistry (7) Inorganic.	5.	Gen. Chemistry (7) Inorganic.	5	Gen. Chemistry (12) Analytical.	5.
Physics (1) Elementary	5.	Physics (1) Elementary.	5.	Geology (1) Phys. Geography.	5
Mathematics (1) Algebra.	5.	Mathematics (3) Geometry	5.	Shopwork (2) Forging.	3.
				Shopwork (4) Chipping and Filing.	2.
Cadet Service.		Cadet Service.		Cadet Service	

SECOND YEAR

Ceramics (1) Analysis of Limestones.	5.	Ceramics 2 Analysis of Clays.	5.	Ceramics (3) Analysis of Clays	5.
Ceramics (4) Gen. Principles	5.	Ceramics (5) Brick.	5.	Ceramics (6) Pottery.	5.
Geology (2) General.	5.	Geology (3) Economic.	5.	Drawing (11) Mechanical.	5.
Cadet Service.		Cadet Service.		Cadet Service	

SHORT COURSE IN INDUSTRIAL ARTS

FIRST YEAR

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Drawing (1) Freehand.	1.	Drawing (1) Freehand.	1.	Drawing (1) Freehand.	1
Drawing (8) Geometric.	2.	Drawing (8) Projections.	2.	Drawing (2) Lettering.	2
Mathematics (2) Algebra.	5.	Mathematics (2) Algebra.	5.	Mathematics (2) Algebra.	5.
Mathematics (3) Plane Geometry.	5.	Mathematics (13) Space Geometry.	5.	Mathematics (14) Trigonometry.	5.
Shopwork (1) Carpentry and Pattern Making.	3.	Shopwork (1) Carpentry and Pattern making.	3.	Shopwork (2) Forging.	3.
Cadet Service.		Cadet Service.		Cadet Service.	

SECOND YEAR.

Drawing (3) Mechanical.	3.	Drawing (3) Mechanical.	3.	Drawing (3) Mechanical.	3.
Industrial Arts (1) Tools and Machines.	3.	Industrial Arts (1) Tools and Machines.	3.	Industrial Arts (1) Tools and Machines.	3.
Physics (1) Elementary.	5.	Physics (1) Elementary.	5.	Geology (1) Phys. Geography.	5.
Shopwork (3), (4) Foundry and Chipping and Filing.	5.	Shopwork (5) Machine Work.	5.	Shopwork (4) Machine Work	5.
Cadet Service		Cadet Service.		Cadet Service.	

SHORT COURSE IN MINING

FIRST YEAR

Mathematics (2) Algebra.	5.	Mathematics (2) Algebra.	5.	Mathematics (2) Algebra.	5
Mathematics (8) Geometry.	5.	Mathematics (13) Geometry.	5.	Mathematics (14) Trigonometry.	5.
Physics (1) Elementary.	5.	Physics (1) Elementary.	5.	Geology (1) Phys. Geography.	5.
Cadet Service.		Cadet Service.		Cadet Service.	

SECOND YEAR

FIRST TERM.	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Drawing (1) Freehand.	2.	Drawing (4) Draughting.	3.	Drawing (2) Lettering.	3.
Drawing (3) Projections.	3.	Geology (4) Elementary.	5.	Metallurgy (9) Mineral Chemistry.	5.
General Chemistry (7) Inorganic.	5.	General Chemistry (13) Laboratory.	3.	Mine Engineering (3) Mine Operating.	5.
Mine Engineering (1) Mine Surveying.	5.	Mine Engineering (2) Ventilation and Haulage.	5.	Shopwork (2) Forging.	3.
Cadet Service.		Cadet Service.		Cadet Service.	

THE COLLEGE OF LAW

FOR ADMISSION

The following are the requirements :

1. *To the Junior Class*—Applicants for admission to the Junior Class must present satisfactory evidence (by teacher's certificate—High School, Academy or College diploma—or by examination) of having a good common school education, including *United States History, Civil Government*, and a thorough training in *English Composition*.

2. *To the Middle Class*—In addition to the requirements for admission to the Junior Class, applicants for admission to the Middle Class must present satisfactory evidence of having completed the work of the Junior year, or its equivalent.

3. *To the Senior Class*—In addition to the requirements for admission to the Junior Class, applicants for admission to the Senior Class must present satisfactory evidence of having completed the work of the Junior and Middle years, or its equivalent.

Students seeking a degree must, before the close of the second term of the Senior Year, present in addition to the requirements above mentioned satisfactory evidence of having completed a course of study, the minimum requirement of which is as follows :

Arithmetic, Civil Government, Geography, Grammar, History of the United States, Physical Geography, Physiology, Rhetoric, Physics, (Gage or an equivalent) *Geometry, Algebra*, (Wentworth's Elements or an equivalent); and, in addition, the equivalent of 75 hours per week for one term of 12 weeks (a total of 900 hours) chosen from any five or more of the following subjects, one at least being a Science and two at least being in History or Political Science (unless the applicant is especially permitted to offer approved substitutes): *Botany, Chemistry, English Constitutional History, English History, English Literature, French, Geology, General History, German, Greek Latin, Logic, Physics, Political Economy, Psychology, Surveying, Trigonometry, United States Constitutional History*; provided, that not less than 65 hours for twelve weeks (a total of 780 hours) of this work shall be of collegiate or university grade. If this last mentioned work has been done by the candidate in a College or University of good standing, certificates of such institution will be accepted. In all other cases the candidate is subject to examination on the work required from this last group. In general, in the absence of satisfactory certificates, opportunity will be given for examination in any subject required for admission as above indicated. Blanks for applications for degrees will be furnished on request.

COURSE IN LAW

FIRST YEAR¹

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
		Contracts (3) in- cluding Sales (2)	5.	Contracts (3) in- cluding Agency (3)	6.
		Criminal Law	2.	Criminal Law	2
Elementary Law	15.	Elementary Law	3.	Elementary Law	3.
		Torts	3.	Torts	3.
	<u>15</u>		<u>13.</u>		<u>14.</u>

SECOND YEAR

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
				Construction of Con- tracts.	2.
Bailments	5.				
Commercial Law	4.	Commercial Law	3.		
Evidence	2.	Evidence	2.	Evidence	2.
				Mortgages	2.
Pleading	3.	Pleading	3.	Pleading	2.
				Partnership	2.
		Real Property	2.	Real Property	3.
		Suretyship	2.		
		Wills	2.		
Moot Court	1.	Moot Court	1.	Moot Court	1.
	<u>15.</u>		<u>15.</u>		<u>14.</u>

THIRD YEAR

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Corporations (Priv.)	2.	Corporations (Priv.)	2.	Corporations (Priv.)	2.
Constitutional Law Federal and State	3.	Circuit and Supreme Court Practice, etc.,	1.		
Equity Jurisprudence	4.	Equity Jurisprudence	2.		
				Federal Practice	2.
		Insurance	2.	Insurance	2.
		International Law (private)	3.		
Municipal Corporations	2.	Municipal Corporations	2.	Municipal Corporations Negligence of.	2.
Probate Law	2.	Probate Law	2.	Probate Law	2.
		Trial Practice	2.	Trial Practice	2.
	<u>13.</u>		<u>15.</u>		<u>12.</u>

Thesis for graduation to count 4 hours through the third term.

¹The subjects are arranged alphabetically—not in order of work.

PURPOSE AND METHODS

It is the purpose of this College to furnish such legal training as will secure the most favorable judgment of the profession, and such as will fit students for practice in any part of the country.

The aim is to teach an accurate knowledge of the principles of the law, and to illustrate the application of these principles to the practical affairs of life—to teach students both to know and to apply the law. The instruction offered includes an Undergraduate Course containing three years of nine months each, and a Graduate Course of one year. The former requires about fifteen hours of lecture and recitation work per week each year, and embraces all the elementary and practical studies necessary for admission to the bar of any State administering the Common Law. The Graduate Course is designed for those seeking special instruction in a particular line, or desiring to take a course of a more practical character.

The methods of instruction combine the advantages of all approved systems and appliances—the text-book and recitation system, the lecture system, and the case system. Charts, outlines, analyses, essays, note-taking, oral and written lectures, reviews and examinations are used; and exercises in drafting contracts, abstracts, conveyances, wills, protests, mercantile contracts, pleadings, indictments, and other legal papers are given. Briefs, arguments in moot courts, etc., are required. Attention is given to the study and accurate analysis of leading cases.

GENERAL REGULATIONS

IRREGULAR STUDENTS

In special cases, students who have had part of the studies in the Junior year and part of those of the Middle year, or part of those of the Middle year and part of those of the Senior year, may be examined on whatever subjects they may select, and may take part of the studies of both years, if the Faculty is satisfied that the applicants can do so to advantage. If candidates for a degree, such applicants must meet all the other requirements and have all the other qualifications of those seeking a degree.

SPECIAL STUDENTS

Persons wishing a knowledge of legal principles *for business purposes only*, but not intending to apply for a degree or to take a full course, may be admitted at any time as special students, and may avail themselves of such advantages of the College as they may deem expedient. Their convenience will not be taken into consideration in arranging classes, and they must make satisfactory arrangements as to fees, hours of recitation, etc., with the Dean.

ENTRANCE EXAMINATIONS

Entrance examinations, except for those seeking a degree, will not be technical; the object being to ascertain the results of previous training and practical capacity to appreciate the technical study of the law. All entrance examinations will be conducted in writing, and will be held on the Monday and Tuesday preceding the opening of each term.

PRIOR READING OF LAW

Although prior reading of law is not required for admission, it is nevertheless very desirable; and it is to be hoped that in the near future this requirement for admission can be made. Before entering the College of Law, careful study of either Walker's American Law, Blackstone's Commentaries, Pomeroy's Municipal Law,

Smith's Elements of Law, Powell's Analysis of American Law, Robinson's Elementary Law, or Baird and Babcock's Guide to the Law will prove of great advantage.

It is believed, also, that all students will be greatly benefited by reading Bishop's First Book of the Law, Hoffman's Legal Studies, Sharswood's Law Lectures, Warren's Law Studies, Washburn's Lectures on the Study and Practice of the Law, or Reed's American Law Studies.

APPLICATIONS FOR DEGREES

At the time of registration all applicants who seek degrees should present their diplomas and certificates of work done. These certificates should state in detail the studies pursued, the text books used, the amount of work done in each study, the amount of time devoted to it, the date of the examination and the rank or standing of the candidate in it. A copy of the course of study should accompany the certificate in all cases, and must accompany it where equivalents are offered. These statements should also be accompanied by information as to age, occupation, experience, and work done since leaving school. Blanks for application will be furnished on request.

EXAMINATIONS

Examinations are held from time to time to test the student's knowledge of the work he has gone over. These are usually written, but sometimes oral.

THESIS

Each candidate for a degree is required to prepare and deposit with the Faculty, at least six weeks before the end of the year of graduation, a thesis of not less than fifteen hundred nor more than five thousand words, exclusive of citations of authorities, upon some subject selected by himself with the approval of the professor giving instruction in that division of law from which the subject is chosen.

DEGREES

The degree of Bachelor of Laws (LL. B.) will be conferred on all who, being twenty years of age and having met the requirements necessary for entrance for a degree, pass satisfactorily the examinations at the close of the Senior year, after having done at least one year's work in the College of Law at the University, and having presented a thesis acceptable to the Faculty.

The degree of Master of Laws will be conferred upon any one who has received the degree of Bachelor of Laws at this University, or other approved University or College, upon completing the studies of the Graduate year, and satisfactorily passing an examination therein, and presenting a satisfactory thesis; the subject of which has been chosen from the field included in the Graduate year.

CERTIFICATES OF WORK DONE

Those who have completed the studies of the College, but have not complied with the requirements for a degree, will be given an official certificate, showing the work done, and signed by the President of the Board of Trustees, the President of the University, and the Dean and the Secretary of the College of Law.

ADMISSION TO THE BAR

The regular Supreme Court examination for admission to the bar is held on the first Tuesday in June of each year. Seniors, if eligible, are recommended to take this examination.

COURSE OF INSTRUCTION

The Course of Study is three years of nine months, or thirty-six weeks, each; covering about fifteen hundred hours of work. It is so arranged that each class will have an average of three recitations a day, of an hour in length, thereby doing the same amount of work that is done in a regular university course.

The first, or Junior year, includes a general view of the leading principles of the whole field of the law as found in Robinson's Elementary Law, Walker's American Law, and Blackstone's Commentaries; to these are given over two hundred hours. The subjects of Contracts, Agency, Sales, Torts, and Criminal Law are studied somewhat in detail during this year, about seventy hours being given to each of these subjects in addition to what is contained in the elementary works before mentioned.

In the Middle year a fairly comprehensive study is made of many leading subjects, such as Pleading; Evidence; Commercial Law, such as bills and notes, partnership, etc.; Real Property, including mortgages and other liens; and Bailments, under which the subject of Carriers will be extensively treated; Wills, etc.

In the third or Senior year, one-half of the time is devoted to Practice, including Federal Practice, Supreme Court Practice, Common Pleas Practice, Probate Practice, Appeals, Error, Extraordinary Legal Remedies, Special proceedings, Office Practice, Conveyancing, etc. The other half is devoted to Equity, Constitutional Law, International Law, Conflict of Laws, General jurisprudence, Private Corporations, Municipal Corporations, etc.

MOOT COURT

Middle Year and Senior Students will have Moot Court, under the supervision of the Dean, throughout the year, not less than one hour each week. The object of Moot Court is to give practical insight into the conduct of trials, examination of witness, production of evidence, etc.

GRADUATE INSTRUCTION

(A) GENERAL SUBJECTS

Provision is made for Graduate instruction in the following subjects: Contracts, Mercantile Law, Corporations, Railroad Law, Insurance Law, advanced Study in Evidence, in the Law of Real Property, Jurisdiction and Procedure in Equity, Domestic Relations, Admiralty, Roman Law, American Constitutional History, American Constitutional Law, English Constitutional History, English Constitutional Law, Comparative Jurisprudence, General Jurisprudence, Political and Social Science.

The Graduate work in the subjects above named will be conducted in the following manner: At the opening of the University year each student will be required to select three subjects to which the work of the year will be devoted. One of these will be designated the major subject. To this he will be expected to give his best energies, and to make his investigations therein thorough, comprehensive and exhaustive. To the other subjects, known as minors, he will give such attention as his time will permit. The work required in the minor lines will be of a more general character, and although thorough so far as prosecuted, will be less extended than that of the major subject. By special permission from the Faculty, a student may devote all his time to one subject. Each student will be under the special guidance of the professors in whose departments his subjects lie. He will receive from each full instruction as to the question to be investigated and as to the nature and direction of his work, and also such individual assistance as may be

needed from time to time during the progress of his studies. Periodical reports and examinations upon work assigned will be required, at which time the professor in charge will go over carefully with the student the ground covered since the last report, and make such criticisms and suggestions as may be necessary.

(B) PRACTICE

A Graduate course in Practice has been provided in the Common Pleas, Appellate, Probate, Federal and Office Practice, and in the interpretation and construction of Contracts and Statutes.

Each student will be required to prepare a thesis upon some question connected with his major subject. This production must be scholarly and exhaustive, and the author must be prepared to defend the positions taken therein.

Graduate students are expected to attend all lectures not in the regular courses. All undergraduate courses are open to graduate students without extra charge.

Graduate instruction covers one year, and actual residence is required.

Those who take the Graduate work, but who are not entitled to a degree, will be given a certificate.

ADVANTAGES

LOCATION

Attention is called to Columbus as a place in which to study law. Here the Legislature meets. Here are the Supreme Court and the Circuit Court; four branches of the Common Pleas Court, in almost daily session throughout the college year; the Probate Court, the County Commissioners, the City Court, and several Magistrates' Courts; also the U. S. Circuit and District Courts. All are easy of access from the College. "There is no place where law is learned so quickly and thoroughly as among lawyers. No teaching is so effective as the object lessons of the trial of cases in court."

LIBRARIES

The following libraries are accessible to the student:

The Law Library of the College contains the Noble Law Library, the Emerson McMillin Law Library, the Critchfield Law Library, and three sets of the Ohio Reports and the Ohio State Reports; about 2,500 well selected volumes. It is shelved with the other libraries of the University, in Orton Hall.

The University Library contains 25,000 volumes of very carefully selected books upon all subjects. This is quite complete in the more recent standard works upon history and political science, philosophy, etc. A good collection of the leading scientific, technical and literary magazines and journals is to be found here.

The State Law Library, of about 15,000 volumes—the largest and most complete law library in the State. It contains complete sets of the English, Scotch, Irish, Canadian, United States, and State Reports, Statutes and Digests, as well as all of the important text-books and leading periodicals published. This library is located in the State House, and because of the small space available must be used with great care and discretion in order that all may be served. It is designed wholly for reference, and students are warned that they must not use the library rooms as a study-room, and that the text-books found here are to be used for reference only. No student is expected, nor will he be permitted, to use these books instead of providing himself with those required in the course.

The State Library, in the State House—a library of general literature, history, science, biography, political and social science, philosophy, etc., comprising some 65,000 volumes. The leading magazines, journals, etc., are also to be found here,

The University Libraries are open from 7:30 A. M. to 9:30 P. M. during the five days in which the University is in session, and on Saturdays from 8 A. M. to 4 P. M. The State Law Library is open six days in the week, from about 8:30 A. M. to 5:30 P. M., with the exception of about an hour or an hour and a half at noon. The State Library is open six days in the week from 9 A. M. to 12 M., and from 2 P. M. to 5 P. M.; and when the Legislature is in session, from 7 P. M. to 9 P. M.

The City Library also may be used by students under reasonable restrictions.

THE UNIVERSITY COURSES

Attention is called to the great advantage of attending a law school in close and vital connection with a University affording the means of a liberal, practical and technical education. Students who are disposed to work faithfully may, at the same time that they are acquiring a technical knowledge of the law, supplement their general education by joining University classes, in departments which they may elect, subject to the requirements for admission to such departments, without extra charge except for laboratory work. Not alone from the courses in History and Political Science, or from those in Mental and Moral Philosophy, should this work be selected, but also from the courses in Civil, Mine, Mechanical and Electrical Engineering, from the courses in Anatomy and Physiology, Economic Geology, etc. To the average practitioner, there will come ten questions involving the principles of surveying or engineering to one of constitutional law or English history. Not a day passes in the litigation of the courts but that numerous questions of anatomy physiology, surveying or engineering arise and are to be decided. Particular attention, therefore, is called to the technical courses afforded by the University, which will be open to those in the College of Law who are able to take them without interfering with the required legal work. The following departments offer courses which will prove beneficial to those who have not had such training as would enable them to take more technical work: Botany, Physiology, Physics, Civil Engineering, Mine Engineering, Chemistry (Toxicology), Geology, Philosophy, History, English.

EXPENSES

FEE

Each student is required to pay an incidental fee of fifteen dollars a year, and in this College a tuition fee of forty-five dollars: a total of twenty dollars for each term.

THE COLLEGE OF PHARMACY

FOR ADMISSION TO THE FOUR-YEAR COURSE ¹

The following are the requirements:

1. *Arithmetic, Descriptive and Physical Geography, English Grammar, and United States History.*

2. *English*—(a) Composition and Rhetoric. Each applicant will be tested as to his ability to write clear and correct English. The test will be the writing of two essays of about two hundred words each. The first essay will be upon a subject drawn from the candidate's observation or experience; as "A description of my native town," "The most remarkable person I ever met," "My reasons for seeking a University education." The second essay will be upon a subject drawn from a list of classics which will be furnished on application.

The proper preparation for this requirement is sustained and regular practice in writing. The pupil should be afforded weekly practice in preparing written exercises—paragraphs, outlines, themes, reproductions, and abstracts; and his written work should be corrected by the teacher and revised and rewritten by himself.

The pupil should be familiarized with those principles of Rhetoric which are most likely to help him in his composition work: such as the principles of sentential structure, outlining, paragraphing, and choice of words. The study of specimens of bad English is not recommended; the time usually devoted to this may be better spent in memorizing and reciting notable passages of prose and poetry selected from works read entire by the class. Exercises in speaking from a topical outline previously prepared by the class are recommended for drill in expression and choice of words.

The subjects for the weekly written exercises should be so distributed that the pupil will have practice in the four types—description, narration, exposition and argumentation. Some of these subjects should be taken from the classics prescribed for 1897 and other classics, preferably by the same authors, prescribed for parallel or subsidiary outside reading by the class; but fully one-half of the subjects upon which the pupil writes during his preparatory course should be drawn from his own observation and experience, especially subjects in description and narration.

(b) *English Classics*—Questions will be set for the purpose of testing the applicant's knowledge of the subject matter, form and substance of the following books; with the plot, purpose, literary style and peculiarities, incidents, and characters of which the applicant should make himself thoroughly familiar:

1898. Milton's *Paradise Lost*, Books I and II; Pope's *Iliad*, Books I and XXII; Goldsmith's *The Vicar of Wakefield*; Southey's *Life of Nelson*; Lowell's *The Vision of Sir Launfal*; Hawthorne's *The House of the Seven Gables*.

1899. Chaucer's *The Knight's Tale*, or Dryden's *Palamon and Arcite*; Milton's *Paradise Lost*, Books I and II; Pope's *Iliad*, Books I, VI, XXII and XXIV; The Sir Roger de Coverly Papers in *The Spectator*; Goldsmith's *The Vicar of Wakefield*; Scott's *Ivanhoe*; Cooper's *The Last of the Mohicans*; Lowell's *The Vision of Sir Launfal*; Hawthorne's *The House of Seven Gables*.

1900. Chaucer's *The Knight's Tale*, or Dryden's *Palamon and Arcite*; Milton's *Paradise Lost*, Books I and II; Pope's *Iliad*, Books I, VI, XXII, and XXIV; The Sir Richard de Coverly Papers in *The Spectator*; Goldsmith's *The Vicar of Wakefield*; Scott's *Ivanhoe*; Cooper's *The Last of the Mohicans*; Macaulay's *Essay on Milton*; Burke's *Conciliation with the Colonies*.

¹An applicant for admission who may be somewhat in arrears in any given subject, will find opportunity to make up this work in the Columbus High Schools, which are fully accredited by the University.

These or equivalent text: will require minute and critical study in class during at least one school year. The test here is the pupil's ability to analyze plot and character, to explain words, phrases and figures, to reproduce thought, to point out characteristics of style. Systematic classroom study of the texts themselves is the only adequate preparation. Literary history, literary biography and the comments of professional critics will not serve the purpose. The work in class should be intensive and disciplinary; there the distinction between the reading of literature and the study of classics should be sharply defined. Outside reading of other works, preferably by the same authors, is recommended, and should be prescribed as the basis of part of the composition work; but this general reading and composition work should not be regarded as an adequate substitute for the minute study of the few classics prescribed above, and will not be accepted as preparation for this part of the English requirement.

3. *Algebra*—Wentworth's or Wells' Elements, complete.

4. *Botany*—Kellerman's Botany and Spring Flora.

5. *Civil Government*—Fiske or Thorpe preferred.

Or *History*—Myer's General History.

6. *Geometry, Plane and Solid*—Venable, Wentworth, or Wells.

7. *Latin*—Pronunciation (the Roman method); Grammar (an exact knowledge of the inflections is essential); Caesar, the first three books of the *De Bello Gallico*.

Or *German*—Joynes-Meissner's German Grammar, complete; Joynes's German Reader, complete; Hauff's *Liechtenstein*, Lessing's *Minna von Barnhelm*, Huss's *Sessenheim* and Buchheim's Goethe's *Dichtung und Wahrheit*.

For the present, the *German* required for admission may be begun at the University, but without University credits.

8. *Physics*—Carhart and Chute, Gage, Avery, or Appleton.

COURSE IN PHARMACY

NOTE—The figure in parenthesis following the name of each study indicates the number of that study in its department. A full description of department work follows this statement of Courses.

Degree: Bachelor of Science in Pharmacy.

FIRST YEAR

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Gen'l Chemistry (7) Inorganic.	5.	Gen'l Chemistry (7) Inorganic.	5.	Gen'l Chemistry (12) Qualitative Analysis.	5.
Latin (1) Pharmaceutical or	5.	Latin (1) Pharmaceutical or	5.	Latin (1) Pharmaceutical or	5.
German (1) Elementary.	4.	German (1) Elementary.	4.	German (1) Elementary.	4.
Mathematics (14) Plane Trigonometry.	5.	Mathematics (15) (16) Spherical Trigonometry. Algebra.	5.	Mathematics (17) Plane Analytics.	5.
Rhetoric (1) Paragraph Writing.	2.	Rhetoric (1) Theme Writing	2.	Rhetoric (1) Prose Analysis.	2.
Cadet Service (men).		Cadet Service (men).		Cadet Service (men).	
Hygiene and Physical Training (women).		Hygiene and Physical Training (women).		Hygiene and Physical Training (women).	

SECOND YEAR

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Botany (6) Physiological.	5.	Botany (4) Medical.	2.		
Gen'l Chemistry (4) Laboratory	5.	Gen'l Chemistry (4) Laboratory.	5.	Gen'l Chemistry (4) Laboratory.	5.
German (2) Science Reading.	2.	German (2) Science Reading.	2.	German (2) Science Reading.	2.
Pharmacy (6) Gen'l Processes.	3.	Pharmacy (7) U S Pharmacopeia.	5.	Pharmacy (8) Dispensaries, etc.	5.
Physics (2) Mechanics and Heat.	3.	Physics (2) Electricity and Magnetism.	3.	Physics (2) Sound and Light.	3.
				Metallurgy (2) Mineralogy.	3.
Cadet Service (men).		Cadet Service (men).		Cadet Service (men).	
Hygiene and Physical Training (women).		Hygiene and Physical Training (women)		Hygiene and Physical Training (women).	

THIRD YEAR

Pharmacy (9) Gen'l Processes.	5.	Pharmacy (10) Prescriptions.	5.	Pharmacy (11) Dispensaries, etc.	5.
Pharmacy (12) Materia Medica.	3.	Pharmacy (13) Materia Medica.	3.	Pharmacy (14) Mat. Medica & Thera.	3.
Physiology (1) Human Anatomy.	3.	Physiology (1) Physiology.	3.	Physiology (1) Physiology.	3.
		Physiology (8) Bacteriology.	2.	Physiology (5) Microscopy.	2.

Chemistry elective for the year—five hours.

FOURTH YEAR

Genera. Chemistry (8) Organic.	5.	General Chemistry (9) Laboratory.	5.	General Chemistry (9) Laboratory.	5.
Geology (2) General.	5.	Geology (2) General.	5.	General Chemistry (11) Toxicology.	4.
Pharmacy (15) Assaying.	5.	Pharmacy (17) General.	5.	Pharmacy (17) General.	5.
Thesis.		Thesis		Thesis.	

Elective, three hours through the year.

THESIS

As a requisite for graduation each candidate must present an acceptable thesis embodying the results of special study and research. The subject must be within the field of Pharmacy, and must be announced to the President of the University (dependent upon the written approval of the proper authorities) not later than the beginning of the second term of the fourth year of the Course. The completed thesis must be submitted not later than the second Saturday before Commencement Day.

SHORT COURSE IN PHARMACY

FOR ADMISSION

Candidates for admission who are less than twenty-one years of age must be prepared in the common English branches. Teachers' certificates (in force), or credentials from approved schools, will be accepted in lieu of an examination.

FIRST YEAR.

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
General Chemistry (7) Inorganic.	5.	General Chemistry (7) Inorganic.	5.	Botany (1) Elementary.	5.
Latin (1) Pharmaceutical.	5.	Latin (1) Pharmaceutical.	5.	General Chemistry (12) Qualitative Analysis.	5.
Physics (1) Elementary.	5.	Physics (1) Elementary.	5.	Latin (1) Pharmaceutical.	5.
Pharmacy (6) General Processes.	3.	Pharmacy (7) U. S. Pharmacopeia.	5.	Pharmacy (8) Dispensaries, etc.	5.
Cadet Service (men).		Cadet Service (men).		Cadet Service (men).	
Hygiene and Physical Training (women).		Hygiene and Physical Training (women).		Hygiene and Physical Training (women).	

SECOND YEAR

Botany (6) Physiological.	5.	Botany (4) Medical.	2.	Gen. Chemistry (11) Toxicology.	4.
Gen. Chemistry (4) Laboratory.	5.	Gen. Chemistry (4) Laboratory.	5.	Gen. Chemistry (4) Laboratory.	5.
Pharmacy (9) Phar. Chemistry.	5.	Pharmacy (10) Prescription Practice.	5.	Pharmacy (11) Dispensing Practice.	5.
				Physiology (1) Physiology.	3.
Physiology (1) Human Anatomy.	3.	Physiology (1) Physiology.	3.	Physiology (5) Microscopy.	2.
		Physiology (8) Bacteriology.	2.		
Cadet Service (men).		Cadet Service (men).		Cadet Service (men).	
Hygiene and Physical Training (women).		Hygiene and Physical Training (women).		Hygiene and Physical Training (women).	

COLLEGE OF VETERINARY MEDICINE

FOR ADMISSION¹

The following are the requirements :

I. For applicants for certificate of Veterinary Surgeon : *Arithmetic, Geography, and Grammar.*

II. For applicants who intend to become candidates for the degree of Doctor of Veterinary Medicine :

1. *Arithmetic, Grammar, and Descriptive and Physical Geography.*

2. *English Composition and Rhetoric*—Each applicant will be tested as to his ability to write clear and correct English. The test will be the writing of two essays of about two hundred words each. The first essay will be upon a subject drawn from the candidate's observation or experience; as "A description of my native town," "The most remarkable person I ever met," "My reasons for seeking a University education." The second essay will be upon a subject drawn from a list of classics which will be furnished on application.

The proper preparation for this requirement is sustained and regular practice in writing. The pupil should be afforded weekly practice in preparing written exercises—paragraphs, outlines, themes, reproductions and abstracts; and his written work should be corrected by the teacher and rewritten by himself.

The pupil should be familiarized with those principles of Rhetoric which are most likely to help him in his composition work; such as the principles of sentential structure, outlining, paragraphing, and choice of words. The study of specimens of bad English is not recommended; the time usually devoted to this may be better spent in memorizing and reciting notable passages of prose and poetry selected from works read entire by the class. Exercises in speaking from a topical outline previously prepared by the class are recommended for drill in expression and choice of words.

The subjects for the weekly written exercises should be so distributed that the pupil will have practice in the four types—description, narration, exposition and argumentation. Some of these subjects should be taken from the classics prescribed for 1897 and other classics, preferably by the same authors, prescribed for parallel or subsidiary outside reading by the class; but fully one-half of the subjects upon which the pupil writes during his preparatory course should be drawn from his own observation and experience, especially subjects in description and narration.

3. *History*—History of the United States, Johnston preferred.

4. *Latin or German*—One year.

5. *Physics*—Gage, Carhart and Chute, Avery, or Appleton.

¹An applicant for admission who may be somewhat in arrears in any given subject, will find opportunity to make up this work in the Columbus High Schools, which are fully accredited by the University.

COURSE IN VETERINARY MEDICINE

NOTE—The figure in parenthesis following the name of each study indicates the number of that study in its department. A full description of department work follows this statement of Courses.

Degree: Doctor of Veterinary Medicine.

FIRST YEAR

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Ag. Chemistry (1) Principles	5.	Ag. Chemistry (8) Organic.	5.	Ag. Chemistry (9) Applications.	5.
Physiology (1) Human Anatomy.	3.	Physiology (1) Physiology.	3.	Botany (1) Elementary.	5.
				Physiology (1) Physiology.	3.
Physiology (4) Histology.	5.	Physiology (4) Histology.	5.	Physiology (4) Phys. Chemistry.	5.
Vet. Medicine (11) Osteology.	5.	Vet. Medicine (12) Myology, etc.	5.	Vet. Medicine (13) Dissections, etc.	5.
Cadet Service.		Cadet Service.		Cadet Service.	

SECOND YEAR.

Agriculture (8) Breeds of Live Stock.	4.	Agriculture (9) Stock Breeding.	4.	Agriculture (10) Stock Feeding & Hygiene.	4.
Pharmacy (12) Materia Medica.	5.	Pharmacy (13) Materia Medica	5.	Pharmacy (18) Laboratory.	5.
Vet. Medicine (14) Gen. Pathology.	5.	Vet. Medicine (15) Gen. Pathology.	5.	Vet. Medicine (16) Special Pathology.	5.
Vet. Medicine (18) Surgical Diseases.	5.	Vet. Medicine (18) Surgical Diseases.	5.	Vet. Medicine (18) Surgical Diseases.	5.
Vet. Medicine (19) Clinic.	3.	Vet. Medicine (19) Clinic.	3.	Vet. Medicine (19) Clinic.	3.
Cadet Service.		Cadet Service.		Cadet Service.	

THIRD YEAR.

Vet. Medicine (20) Special Pathology.	3.	Vet. Medicine (21) Special Pathology.	3.	Vet. Medicine (22) Therapeutics.	5.
Vet. Medicine (24) Gen. Surgery.	5.	Vet. Medicine (25) Practice in Operating.	5.	Vet. Medicine (23) Obstetrics.	5.
Vet. Medicine (19) Clinic.	3.	Vet. Medicine (19) Clinic.	3.	Vet. Medicine (19) Clinic.	3.
Vet. Medicine (27) Meat Inspection.		Physiology (6) Bacteriology.	3.	Vet. Medicine (26) Horse Shoeing	5.
	5.	Thesis.	2.	Thesis	2.

THE SUMMER SCHOOL

By action of the Board of Trustees and of the Faculty a Summer School has been established in the University and placed under the general supervision of the President and Faculty. The immediate supervision of the work of the school is vested in a committee of the Faculty, consisting of the President of the University, a Dean of the Summer School, and the heads of departments which offer courses in the Summer School. The session of the Summer School of 1897 began June 21 and closed July 17, covering a period of four weeks.

Copies of the Summer School Announcement for 1898, containing full information, may be had by addressing the Executive Office after April 1, 1898.

GENERAL STATEMENT

The courses of instruction outlined below were given in the Summer School of 1897. Each course is given if four students apply for it, unless another minimum number of students in the class is specified in the outline of the course. Other courses may be offered if there should be a call for them. Those who desire to engage in special advanced work under the guidance of the University, should communicate with the heads of departments concerned.

Each student selects such of these courses as he may wish to take; but the amount of work required in each course is so great that students are advised not to undertake work in more than two departments, nor in excess of fifteen exercises each week.

Fees are payable in advance to the Treasurer of the Summer School. Students are admitted to classes only upon presentation of cards signed by the Dean and countersigned by the Treasurer. The fees are, for three full single courses of five hours each week through four weeks, ten dollars. Many instructors offer double courses, equal to one course through eight weeks; and students are encouraged to take one such course, with one single course, and concentrate their work. Students who give their instructors satisfactory evidence that they can profitably carry more work may take a fourth course on payment of an additional fee of three dollars.

Laboratory fees are extra; consult the outline of each course involving laboratory work. The fee for special advanced work is determined by the instructor. The minimum total of fees for any one person is ten dollars. No reduction will be made on account of loss of time by students.

Ten hour classes meet once on Monday and Saturday and twice on the other days of the week; six hour classes, on every day of the week; five hour classes, on every day except either Saturday or Monday; four hour classes, on Tuesday, Wednesday, Thursday and Friday; three hour and two hour classes, on alternate days.

During library hours students of the Summer School can consult the books in the library and use the reading room for reading and study; under the same rules as those which apply to regular University students. There is no library fee.

Each head of department determines what (if any) credits in regular University courses in his department shall be allowed for work done in the Summer School. Credit can be allowed only when the work is the same in kind and amount as in the University. For information as to this, and for fuller information respecting any of these courses, apply to the instructors.

Classes meet on standard time.

Columbus is centrally situated, more easily accessible than any other city in Ohio. The grounds of the University are large and delightful, and in summer especially attractive and restful. The walks, drives, trees, lawns, gardens, and farm

secure country air, scenery and quiet, with more than country conveniences. The rooms and equipment are ample. In addition to the library, rooms are open in which students can study in the hours between recitations.

The cost of living in Columbus is moderate. A furnished room with board can be secured, in homes conveniently near the University, for not to exceed four dollars a week.

COURSES OF INSTRUCTION¹

In the following list of courses the number of "hours" indicate the number of class exercises each week, whether lectures, recitations or laboratory work

ASTRONOMY

- A. **General Astronomy for Teachers**—Lectures and recitations. Course purely descriptive, requiring no knowledge of mathematics; special attention given to identifying the different constellations..... 5 hours
- B. **Practical Astronomy**—Lectures supplemented with practice with the transit and other minor instruments of the Emerson McMillin Observatory.....10 hours

BOTANY

- A. **Elementary Botany**—Two hours daily, but to count as a single course 5 hours
- B. **Systematic Botany**—Single or double courses as desired.....5 or 10 hours
- C. **Histology and Experimental Physiology**—Single or double course.
Laboratory fee \$1 for single, \$2 for double course5 or 10 hours

CHEMISTRY

- A. **Principles of Chemistry**—Lectures..... 5 hours
- B. **Qualitative Analysis**—Laboratory fee \$4.0010 hours
- C. **Quantitative Analysis**—Laboratory fee \$4.00.....10 hours

ENGLISH COMPOSITION AND RHETORIC

- A. **Teachers' Course**—Lectures and conferences on the teaching of English in the secondary schools, with a few specimen lessons. Some of the subjects discussed in the lectures are as follows: Class-room methods and procedure; the place of the text-book in composition and Rhetoric; the relation of composition-work to reading and to the study of English Classics; the order of topics; plans for courses in the secondary schools; plans for lessons; the essay problem; the problem of interest; the teachers' necessary equipment..... 2 hours

¹The courses for 1898 have not yet been determined. The courses printed herein are given to illustrate the general scope of the school. They cover the work done in 1897.

- B. **Practice Course**—This includes two themes each week (to be criticised closely by the instructor), and a collateral study of collected specimens of English prose with reference to the principles of composition which they illustrate. The types of composition studied and attempted in the practice-work are the sketch, the criticism and book-review, the short story, the essay, the news article, and the brief and argument.... 5 hours

ENGLISH LANGUAGE

- A. **Teachers' Course**—Lectures on Historical English Grammar. Certain forms of sentence structure, usage and idiom, are traced through the various stages and periods of the language; and some reference is made to the statements of the school grammars in regard to these forms. The teaching of English Grammar in the schools is discussed at two of the sessions of the class..... 3 hours

ENGLISH LITERATURE

- A. **Foundation Studies in English Literature**—A course for teachers consisting of lectures, with illustrative readings, for which books may be obtained of the department..... 5 hours
- B. **Teachers' Course in Preparatory Classics**—In this course the classics appointed for the examinations of 1898 are studied, beginning with Tennyson's *The Princess*. This course is an enlargement of course A. and is open to only those who take that course..... 5 hours
- C. **Teachers' Course in Shakespeare**—Beginning with *The Merchant of Venice* 5 hours

Courses A and C may be taken singly. These three courses together, supplemented with a satisfactory familiarity with Coppee's (or an equivalent) English Literature, form an equivalent for University course 1 in English Literature.

FRENCH

- A. **Elementary Course**—Survey of Grammar; rapid reading; drill in pronunciation. The object of this course is to furnish the beginner with the essentials of the language. Text-book: Joyne's Minimum French Grammar and Reader.....10 hours
- B. **Teachers' Course**—An advanced course for teachers and others possessing a reading knowledge of French. The work includes: (1) special training in pronunciation, conversation, dictation and translation from English into French to secure a practical command of the language; (2) lectures on the methods of teaching French, and the teachers' equipment..... 5 hours

GEOLOGY

- A. **General Geology**—Especially the inorganic phases of the subject. Numerous field excursions are made near Columbus. Students will be encouraged to make and label collections of rocks for future work with their classes. Especial attention is given to the Geology of Ohio. This course is designed for teachers in High Schools..... 5 hours

- B. **A Laboratory Course in Ohio Fossils**—This is supplementary to course
A. Any amount of time may be given to this subject.
- C. **Elementary Physical Geography**—This is designed for students preparing to enter the First-year class of the University, but who may be deficient in this subject..... 5 hours

GERMAN

- A. **Outline of German Grammar**—A comparative study of German and English Grammar designed especially for teachers and more mature beginners, who are at home in English Grammar..... 5 hours
- B. **Elementary German**—A more elementary and detailed study of Grammar than that of course A; reading of Storm's *Immensee*..... 10 hours
- C. **German Lyrics**—Selections from Buchheim's *Deutsche Lyrik*. For students with one or two years' preparation..... 5 hours
- Classes are organized in German Literature, Science Reading, Conversation, Composition, or Middle High German, if there is a demand for them.

GREEK

- A. **Elementary Course**—For beginners. Text-book, Gleason and Ather-ton's *First Greek Book*.
- B. **Xenophon's Anabasis**—Books I, II or III. Especially adapted for those who need to complete their preparation for college. Industrious and capable students may possibly arrange for a double course in Xenophon.
- Work satisfactorily done may be counted towards admission to the University.

HISTORY AND POLITICAL SCIENCE

- A. **American History**—A study of the political history of the United States during the formative period (1750-1829). Text-book and lectures. This course is especially designed for teachers..... 5 hours
- B. **American Political Institutions**—An advanced course in Civics embracing an analysis of American constitutions and political institutions. Text-book and lectures..... 5 hours

ECONOMICS

- A. **Elements of Political Economy**—Text-book and lectures..... 5 hours

LATIN

- A. **Cicero's Orations**—With special emphasis upon Grammatical Forms, Idiomatic Translation, Latin Prose Composition, Roman History..... 5, 10 or 15 hours
- B. **Vergil's Æneid**—With special attention to Poetic Forms, Prosody, Mythology, Roman Life and Customs..... 5 hours
- The course in Vergil's *Æneid*, at the wish of the class, is adapted to the needs of teachers.

If the demand warrants, three classes are formed in Cicero.

I. Reads the First and Second Orations against Catiline.

II. Reads the Third and Fourth Orations against Catiline.

III. Reads the Oration *pro Archia*, and the Oration *pro Lege Manilia*.

A capable and industrious student can take two or all three of these courses. Classes are formed to begin Latin, and to read Cæsar.

Work satisfactorily done may be counted towards admission to the University.

MATHEMATICS

Courses are offered in Algebra, Geometry, Trigonometry; also in Higher Mathematics for which there may appear sufficient demand. A special class is formed for the critical examination of text-books in Mathematics used in the public schools of Ohio.

PHILOSOPHY

- A. **Psychology**—For teachers and those intending to teach. A single course, one hour daily; or a double course, two hours daily. Text-book, lectures and discussions.....5 or 10 hours

PHYSICS

- A. **Single Course**, for teachers in elementary Physics; suited largely to individual wants 5 hours
- B. **Double Course**, for teachers, as above.....10 hours
- C. **Double Course**, for teachers, in laboratory practice; along lines depending upon ends in view 5 hours
- D. **Double Course**, for teachers, as in C.....10 hours
- E. **Special Course**, for students and others, whose preparation or class record in elementary Physics may be incomplete.
- In courses C and D attention may be paid to arrangement of pieces for class demonstration

ZOOLOGY AND ENTOMOLOGY

- A. **Invertebrate Morphology**—A laboratory course in invertebrate dissection. Types are dissected illustrating the ucracheata Echinodermata, Crustacea, Mollusca, Vermes and Coelenterata. The object is to give as comprehensive survey of the Invertebrate as the time will permit. (Laboratory fees \$1). Teachers' course..... 3 hours
- B. **Entomology**—A laboratory and field course in Entomology. The laboratory work consists of dissection of types illustrating the different orders of insects. The field work consists of collection and identification of specimens with instruction in preserving and mounting material..... 3 hours
- C. **Embryology**—A laboratory course in Embryology. The chick is used as a basis, and serial sections are studied. Lectures are given on the earlier and more complex later stages. Instructions are given in fixing, staining, cutting and mounting embryos for microscopic work. Each student is expected to put up one surface and one serial preparation. (Laboratory fees \$1).....3 or 5 hours

- D. There is room each summer for a few students at the Sandusky Lake Laboratory. If any one desires exact information concerning the opportunities, the nature of the work and character of the help offered, he should address Professor D. S. Kellicott, Ohio State University, Columbus.

THE PEDAGOGICAL CONFERENCE

Following a suggestion made at the Dayton meeting of Superintendents and Principals, in the spring of 1897, the State University made special arrangements for the services of four eminent specialists in Pedagogy, and offered a series of conferences in this science, during the last two weeks of July—closing the University Summer School.

This date was chosen in order not to conflict with the meeting of the National Educational Association, or that of the State Association; and even to give time for short excursions after these meetings, for those who wish such "outings."

The best teachers of the State have been working as each could, to improve the training of teachers and to educate public opinion to the point where trained teachers will be recognized as indispensable. An opportunity was thus presented to promote to an appreciable extent the cause which each has at heart.

The plan included four regular lectures each day; at eight o'clock and at ten in the morning, and at two and four o'clock in the afternoon. Each lecture was followed by the freest discussion, in which the lecturer answered questions asked by those present. There were other single lectures and addresses by such well-known Ohioans as Superintendent Shawan and Miss Sutherland, of Columbus, Professor Scott, and others.

The gentlemen who were chosen as leaders, were Superintendent Schaeffer, of Pennsylvania, one of the most profound and successful workers on this line; President Charles DeGarmo, of Swarthmore, the most representative of the Herbartians, whose writings have given him a national reputation, and whose text is now in the hands of the members of the Ohio State Reading Circle; Prof. William L. Bryan, of the State University of Indiana, who is already recognized as authority in all matters pedagogical and who is one of the ablest expounders of the methods and results of child-study; and Professor J. P. Gordy of the State University.

The University library was open to all attending the Conference without extra charge.

About forty teachers were present; and in their enthusiasm made good the comparative small number who thus took advantage of the quite extraordinary opportunities for special work. The lectures were exceedingly suggestive and instructive, and the discussions were spirited and helpful.

Before adjournment resolutions were passed warmly commending the general plan of the Conference, and requesting that arrangements be made to continue this as one of the permanent features of summer work at the University. This will be done if the teachers of the state in sufficient numbers pledge their support for the summer of 1898. All correspondence should be addressed to **The Executive Office, State University, Columbus.**

THE DEPARTMENTS

The Departments

AGRICULTURE

Professor Hunt, Assistant Professors Gibbs and Noyes, Mr. Burkett

- 8.¹ **Breeds of Live Stock.** Lectures and recitations three times a week upon the history, characteristics, adaptation, care and management of the different breeds of domestic animals. Practicum once a week in scoring and judging live stock. First term.
9. **Principles of Breeding.** Lectures and recitations three times a week upon the laws of hereditary and their practical applications. Practicum once a week in scoring and judging live stock, and in writing and tracing pedigrees. Second term.
10. **Stock Feeding and Hygiene.** Lectures and recitations three times a week upon the laws of nutrition, the character of food stuffs, the relation of the food to the animals, and the kind and quantity of food to produce given effects. Practicum once a week in calculating digestibilities, nutritive ratios and feeding standards. Third term.
11. **Farm Equipment.** Lectures and recitations three times a week upon selecting, planning and equipping farms; planning and erecting farm buildings and fences; building roads; farm vehicles and machinery; power, water and drainage. Practicum once a week in drawing plans of farms and farm buildings; leveling and laying drains; dynamometer tests of wagons and farm implements. First term.
12. **Soils.** Lectures and recitations three times a week upon the origin, formation, kinds, and physical properties of soils, and their improvement by cultivation, fertilization, drainage, and irrigation. Practicum once a week in laboratory testing physical properties of several soils, determining the relation of soils to heat, moisture, air, and fertilizers, and making mechanical analysis. Second term.
13. **Farm Crops.** Lectures and recitations three times a week upon the history, production, marketing, cultivation, and harvesting of farm crops. Practicum once a week with growing and dried specimens of farm crops, including grasses, clovers, and other forage crops. Third term.
14. **Animal Mechanics and Exterior.** Lectures and recitations three times a week upon animal mechanics, proportions, and the relation of the latter to specific uses. Practicum once a week in measuring animals and testing the value of given measurements for given purposes. First term.
15. **Butter Making and Cheese Making.** Recitations twice a week. Laboratory practice two half days each week in running separators, churning and working butter, making cheese, and testing and pasteurizing milk. Second term.

¹ These numbers are "finding numbers," and do not necessarily indicate the sequence of topics.

16. **History of Agriculture and Rural Economics.** Lectures and recitations upon the history of agriculture; present agricultural methods in various countries; cost and relative profits of various farm operations and systems. Four times a week. Third term.
5. **Dairy Farming.** Lectures once a week upon breeds, and upon feeding, breeding and selecting dairy stock; equipment and management of dairy farms. Practicum once a week in scoring and judging live stock, writing pedigrees, and calculating feeding standards. Second term.
6. **Butter Making and Cheese Making.** Practice in running separators, churning and working butter, etc., making cheese and testing and pasteurizing milk. Four half days each week. Second term.
7. **Butter Making and Cheese Making.** Lectures and recitations. Two hours each week. Second term.

AGRICULTURAL CHEMISTRY

Professor Weber and Mr. Vinson

1. **Principles of Chemistry and Chemical Nomenclature.** Lectures and text book for three or four weeks, five times a week; then lectures twice a week on Chemistry of Non-metals, and laboratory practice three times a week. First term.
8. **Organic Chemistry.** Lectures twice a week; laboratory practice three times a week. Second term.
9. **Applications of Chemistry to Agriculture.** Lectures twice a week; laboratory three times a week. Third term.
4. **Laboratory.** Analysis of fertilizers, feed-stuffs, dairy products, fruits, vegetables, alcoholic liquors, etc. Five laboratory periods a week through the year.
7. **Chemistry of Milk and Milk-Testing.** Twice a week. Dairy Course.
6. **Laboratory,** five times a week through the year.

ANATOMY AND PHYSIOLOGY

Professor Bleile, Mr. Van Harlingen, Mr. Dresbach

COLLEGES OF AGRICULTURE, PHARMACY, AND VETERINARY MEDICINE

1. **Human Anatomy and Physiology.** Lectures, recitations and laboratory work. Five times a week. First, second and third terms.
This course must be preceded by, or accompanied with, a course in chemistry.
2. **General Physiology.** Lectures, recitations and demonstrations. Three times a week. Third term. [Short Course in Agriculture.]
4. **Histology and Histo-Chemistry.** Five times a week through the year.
This course must be preceded by, or accompanied with, a course in chemistry.
5. **Microscopy and Urinary Analysis.** Lectures and laboratory work. Twice a week. Third term.
6. **Bacteria,** in their relation to Milk, Butter and Cheese. Lectures and laboratory work. Twice a week. Second term.
7. **Bacteriology.** Three times a week. Second term. [Veterinary Medicine.]
8. **Bacteriology.** One lecture, one laboratory period, a week. Second term.
[Pharmacy.]

COLLEGE OF ARTS, PHILOSOPHY AND SCIENCE

First Semester

- 51¹. **Human Anatomy and Physiology.** Lectures, recitations and laboratory work. Five times a week.
53. **Physiological Laboratory.** Three laboratory periods a week.
55. **Physiological Laboratory.** Five laboratory periods a week.
57. **Bacteriology.** One lecture, one laboratory period a week.
59. **Histology and Histo-Chemistry.** Laboratory. Five laboratory periods a week.
61. **Bacteriology.** One lecture, two laboratory periods a week.

Second Semester

54. Continuation of Course 53. Three laboratory periods a week.
56. Continuation of Course 55. Five laboratory periods a week.
58. **Microscopy.** Lectures and laboratory work. Twice a week. Last half of Semester.
60. Continuation of Course 59. Five laboratory periods a week.

ANCIENT ART

(See Greek Language and Literature.)

ARCHITECTURE

(See Drawing.)

ASTRONOMY

Professor H. C. Lord

COLLEGE OF ENGINEERING

2. **Astronomy and Geodasy.** Lectures on practical Astronomy, supplemented by practice with the instruments of the Emerson McMillin Observatory. Text-book, Doolittle. Four times a week. Third and first terms.

COLLEGE OF ARTS, PHILOSOPHY AND SCIENCE

52. **General Astronomy.** Lectures and recitations. Five times a week. Second half, second semester.
54. **Mathematical Astronomy.** Five times a week. Second semester. Consult Professor Lord.
- 55, 56. **Theoretical Astronomy.** Lectures and Observatory practice. The theory of the undisturbed motion of a planet or comet and the calculation of ephemerides. Parabolic orbits from three complete observations. Orbits from three complete observations, including the eccentricity. Work in the Observatory with the twelve-inch equatorial. Definitive orbits. Observatory work continued. Authorities: Watson, Klinkerfeus, Appolzer and the astronomical journals. Five times a week through the year.

¹ "Finding numbers" from 51 upwards always indicate Semester work.

- 57, 58. **Astro-Physics.** Lectures on the theory of the Spectroscope and its use in Astronomy, supplemented by practice with the large spectroscope of the Observatory. Five times a week, through the year.
Astronomy 55, 56, 57 and 58 are open only to students who have had Calculus.

BOTANY

Professor Kellerman, Mr. Schaffner

COLLEGES OF AGRICULTURE, PHARMACY, AND VETERINARY MEDICINE

1. **Elementary Botany.** Lectures, recitations and field work. Text-book: Kellerman's *Elementary Botany and Spring Flora*. Must precede all other courses in this department except nine. Five times a week. Third term.
4. **Medical Botany.** Twice a week, second term. Similar to course 56 in the College of Arts, Philosophy and Science.
6. **Physiological Botany.** Lectures and laboratory work. Five times a week. First term.
7. **Physiological and Economic Botany.** Lectures and laboratory work. Five times a week. Second term.
8. **Economic Botany and Vegetable Pathology.** Lectures and laboratory work. Five times a week. Third term.
9. **Dendrology.** Lectures, field and laboratory work. Twice a week, first term. Open to students who have not studied Botany.

COLLEGE OF ARTS, PHILOSOPHY AND SCIENCE

First Semester

51. Similar to Course 1 in College of Agriculture.
53. Similar to Course 6 in the College of Agriculture. Four times a week.
55. **Systematic and Physiological Botany.** Lectures, laboratory and field work. Four times a week.
57. **Laboratory Work.** Short Course. Two or three times a week.
59. **Advanced Laboratory work in Histology and Physiology.** Five times a week. Open to students who have taken Course 53 or 55.
61. **Systematic Botany, Phenogamic and Cryptogamic.** Three to five times a week. Open to students who have taken Course 53 or 55.

Second Semester

56. **Medical Botany.** Laboratory work. Twice a week. First half of semester.
This Course must be preceded by Course 53.
58. Continuation of Course 57. Two or three times a week.
60. Continuation of Course 59. Five times a week.
62. Continuation of Course 61. Three to five times a week.

CERAMICS

(See Clay-working and Ceramics)

CHEMISTRY.

Professor McPherson, Professor Norton, Mr. Foulk, Mr. Fisher, Mr. Watson

COLLEGE OF ARTS, PHILOSOPHY AND SCIENCE

FIRST SEMESTER

51. **Elementary Chemistry.** Arranged for students who have little or no knowledge of Chemistry. Three sub-divisions; one lecture, one quiz, and three hour's laboratory practice weekly. In the laboratory the student performs an extended series of experiments illustrating the principles of Chemistry. Three hour's cred.t.
53. **Qualitative Analysis.** Laboratory, lecture and quiz. Students familiarize themselves with the properties of the elements with a view to their detection, and then apply this knowledge to analysis of unknown substances. Three to five times a week. This course must be preceded by courses 51 and 52.
55. **Quantitative Analysis.** Laboratory, lectures and recitations. Use of the balance and general principles of gravimetric analysis. Drill in the solution of problems in quantitative analysis; study of properties of precipitates; principles of volumetric analysis. Selections are made from such analytical methods as best meet the needs of the students. The samples used for analysis are mixtures or commercial products the percentage composition of which is not made known to the student until he has reported his own results. Five times a week.
57. **Organic Chemistry.** Laboratory, lectures and recitations. Open only to students who are familiar with at least the principles of quantitative analysis. Five times a week.
59. **Advanced Chemistry.** Laboratory. Arranged for special students who have had courses 53, 54, 55, 56, 57; also course 58 for students in Organic Chemistry. Students are allowed to select such work as they are capable of undertaking—as, the critical examination of analytical methods as well as the study of new methods. Five times a week.
- 61a. **Inorganic Preparation.** Laboratory. This course includes the preparation of inorganic substances from the crude materials. Special attention is given to the preparation of chemically pure compounds, to be used in certain quantitative processes. Thorpe's text book on *Inorganic Preparations* is used, and reference is made to Bender and Erdmans' *Anorganische Preparatione* and Krauche's *Prufung Chemischer Reagentien*. This course must be preceded by quantitative analysis. Four times a week until the Christmas Recess.
Students electing this course must follow with theoretical chemistry and sanitary analysis.
- 61b. **Theoretical Chemistry.** Lectures and recitations. A course of twelve weeks, beginning after the Christmas Recess. Four times a week.
63. **Chemical Seminary.** Special students will meet to discuss special topics and reviews of current literature. Once a week.
65. **Electrolytic Analysis.** Laboratory. Extended practice is given in quantitative electrolytic analysis. Twice a week. (Not given in 1897-1898.)

SECOND SEMESTER

52. Continuation of Course 51. Three hours' credit.
54. Continuation of Course 53, including use of Spectroscope.

- 56. **Quantative Analysis.** Continuation of Course 55. Five times a week.
- 58. **Organic Chemistry.** Laboratory. Continuation of Course 57. Arranged for students who wish to specialize in organic chemistry. The course includes further preparation of typical organic compounds; organic combustions and the determination of vapor densities. Five times a week.
- 60. Continuation of Course 59.
- 64. Continuation of Course 63.
- 66. Repetition of Course 55.
- 68. **Sanitary Analysis.** Laboratory and Lectures. A study of the most important chemical methods for the analysis of water and air. This course must be preceded by quantative analysis, and at least the equivalent of Course 61 in Anatomy and Physiology (bacteriology.) The course extends over the last ten weeks of the second semester.

Students who can elect but one year of Analytical Chemistry, will take Courses 53 and 66. Others will take 53 and 54, then follow with 55, 56 and 57.

COLLEGES OF ENGINEERING AND PHARMACY

- 7. **Elementary Chemistry.** Inorganic. Lecture, Laboratory and Quiz. Laboratory work; First Term, experiments upon the non-metals; Second Term, principles of qualitative analysis. Five times a week. First and Second Terms. (All four-year Engineering Courses, and long and short Courses Ceramics, Mine Engineering and Pharmacy.
- 12. **Qualitative Analysis.** Five times a week. Third Term.
- 13. **Qualitative Analysis.** Three laboratory periods a week. Second Term. (Short Course in Mine Engineering.)
- 4. Similar to Courses 55 and 56. Five times a week through the year.
- 8. **Organic Chemistry.** Lectures. Five times a week. First Term.
- 9. **Organic Chemistry.** Laboratory. Similar to Course 58. Five times a week. Second and Third Terms.
- 11. **Toxicology.** Lectures. Poisons—their effects, antidotes and detection. Four times a week. Third Term.
- 14. **Theoretical Chemistry.** Lectures and Recitations. Three times a week. Second Term.
- 15. **Sanitary Analysis.** Similar to Course 68. Four times a week. Third Term.
- 16. **Applied Chemistry.** Lectures on Industrial Chemistry. These are made as practical as possible by visits to different chemical works. When possible specialists deliver lectures on subjects belonging to their particular line of work. Three times a week. Second Term. (This Course not given in 97-98.)
- 17. **Inorganic Preparations.** Similar to Course 61. Four times a week. First Term.

For Courses in the technical analysis of iron, steel and allied products, see the department of Mining and Metallurgy.

For courses dealing with the application of chemistry to Agriculture, see the department of Agricultural Chemistry.

CIVIL ENGINEERING

Professor Brown, Assistant Professor Sherman

1. **Land Surveying.** Recitations and field work. Johnson's Theory and Practice of Surveying. Six times a week. First term. Second year.
2. **Railroad Surveying.** Recitations and field work. Searle's Field Engineering. Six times a week. Third term. Second year.
3. **Topographical Surveying.** Lectures, field work and drawing. Johnson's Surveying used for reference. Four times a week. First term. Third year.
4. **Topography.** Platting, pen and tinted work. Reed's Topographical Drawing and Sketching. Four times a week. Second term. Second year.
5. **Working Drawings in Railway Construction.** Lectures and drawing and estimates of simple structures. Three times a week. Second term. Third year.
6. **Stereotomy.** Recitations, drawing and model cutting. Warner's Stereotomy. Four times a week. Second term. Third year.
7. **Bridge Strains.** Recitations and lectures. Part I of Dubois's Strains in Framed Structures. Five times a week. Third term. Third year.
8. **Bridge Designing.** Lectures and drawing. Part II of Dubois's Strains in Framed Structures and Johnson's Modern Framed Structures used for reference. Five times a week. First term. Fourth year.
10. **Sanitary Engineering.** Lectures. Five times a week. Third term. Fourth year.
14. **Civil Engineering Laboratory.** Cement testing, adjustment of instruments. Twice a week. Second term. Fourth year.
15. **Masonry Construction.** Recitations and lectures. Baker's Masonry Construction. Five times a week. First term. Fourth year.
16. **Highways.** Lectures on roads, streets, canals, railroads and rivers. Five times a week. Second term.
Fourth year students in Civil Engineering must elect either 16 or 17.
17. **Railway Location.** Recitations and lectures. Wellington's Economic Theory of Railway Location. Five times a week. Second Term.
Fourth year students must elect either 16 or 17.
18. **Water Supply.** Recitations and lectures. Fanning's Water Supply. Five times a week. Third term. Fourth year.
19. **Trusses.** Lectures and drawing. Five times a week. Third term.
Third year, Mine Engineering and Mechanical Engineering.
20. **Roof Trusses.** Lectures and drawing. Five times a week. First Term.
Third year, Architecture.
21. **Surveying.** Recitations and field work. Davis' Surveying. Three times a week. Third Term.
Third year, Architecture.

CLAY WORKING AND CERAMICS

Professor Edward Orton, Jr., Mr. Evans

1. **Quantitative Analysis of Simple Minerals.** This course is open only to those who have completed General Chemistry 12. The student begins the quantitative analysis of salts and chemicals, and later works on limestone and other easy minerals. Five times a week. First Term.
2. Continuation of Course 1. The student begins the quantitative analysis of clays and complex minerals, working first on samples of known composition, and later on unknown materials. Five times a week. Second Term.
3. Continuation of Course 2. The student completes the ultimate analysis of clays, and begins the proximate or "Rational" analysis of clays and pottery bodies, following the methods of Seger. Five times a week. Third Term.
4. **A series of lectures** (supplemented by frequent recitations) on the origin, composition and properties of clays and other minerals employed in the clay, glass, and cement industries. Five times a week. First term. Laboratory work in the physical testing of clays, and in their mechanical analysis.
5. Continuation of Course 4. A series of lectures, with recitations, on the general principles of the manufacture of bricks and the coarser clay wares, including the selection and winning of the materials, their preparation, manufacture, burning and testing. Five times a week. Second term.
6. Continuation of Course 5. A series of lectures, with recitations, on the classification and manufacture of pottery and the finer grades of clay wares, including the selection of the materials, preparation of the bodies, manufacture of the ware, preparation of the glazes, burning and decoration of the wares, and the pyrometry of ceramics. Five times a week. Third Term.
7. Continuation of Course 3. Open only to those who have completed that course. The analysis of glasses and glazes, devoting special attention to the use of hydrofluoric acid in silicate analysis, and to the determination of lead and boracic acid. Five times a week. Second Term.
8. Continuation of Course 7. The further analysis of colored glasses and glazes, enamels, and ceramic colors, especial attention being given to the determination of the coloring and opacifying oxides. Five times a week. Third Term.
9. **Laboratory work in Ceramics.** Open only to those who have completed Courses 3 and 6. The student will first undertake the production of such wares as are made from single clays, such as bricks for building and paving purposes; then those wares whose bodies are made by blending two or more natural clays, such as firebrick and refractory materials, earthenwares, stonewares, and yellow wares; and, lastly, such wares as are made by the building up of an artificial body, such as is used in the production of white wares, porcelain, and in glazed and encaustic tiles. In each case the bodies made will be made into appropriate wares, burnt, and tested as to quality. Five times a week. First Term.

10. Continuation of Course 9. The student will practice on the production of glasses and glazes, beginning with the natural "slip glazes," and taking successively the soft raw-lead glazes, the fritted lead-boracic-acid glazes, and the hard-fire leadless porcelain glazes. In each case the glazes will be made for use on some definite body, and will be made to "fit" it accurately. Five times a week. Second Term.
11. Continuation of Course 10. The student will practice on the use of the coloring and opacifying oxides on glazes, and on the production of vitrifiable colors for the underglaze and overglaze decoration of pottery, and in the production of body-stains for encaustic wares. Five times a week. Third Term.
12. A series of lectures on the manufacturing and testing of natural and Portland cements and hydraulic silicates. Open to students who have had courses 3 and 6. Facilities for laboratory work in making, burning, and testing cements will be given. Five times a week. Second Term.
13. Practice in making drawing and specifications for brick kilns, brick dryers, pottery kilns, gas producers, glass pot-furnaces, glass tanks, cement kilns, and burning cylinders. Students will be allowed to specialize along the lines they intend to follow. Twice a week. Second Term.
14. **Mineral Reports.** A series of lectures and recitations, with frequent quizzes, on the prospecting and opening up of mineral properties, and in the inspection of factories and ceramic plants, with a view to recommending economic changes in them. Frequent trips will be made to the important clay-working centers of Ohio for field-work and practice in observation. Students will be allowed to specialize along their intended lines. Five times a week. Third Term.
15. **Thesis.** A satisfactory thesis, involving original investigation and special study must be completed as a requisite for graduation. The subjects for these must lie inside the range of ceramic work, but can be made to follow the lines along which the student has been specializing.

DOMESTIC SCIENCE

Associate Professor Bowman

1. One lecture (demonstrated when necessary) and three laboratory periods a week. Four hours credit. First Term.

Lectures on

- (a) **Principles of Combustion**, utility and cost of fuels, construction of ordinary stoves and ranges and of the Aladdin Oven; practice in building, regulating and caring for a fire; the consideration of ancient and modern methods of cooking.
- (b) **Food Economics:**

Study and classification of Food principles:	{	Water Salts Carbo-hydrates Proteids Fats
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Comparative nutritive values of foods. A vegetable diet considered. Baking powders, food adjuncts, beverages, filtration, laws regulating adulteration of foods and inspection of meats, the various methods of preserving foods.

- (c) **Study of Cuts of Meats** (demonstrated) and of carving.

Laboratory work.

General Cookery. Preparation of cereals, vegetables, soups, stews, fish, meats and breads.

2. One lecture, three laboratory periods a week. Four hours credit. Second Term.

Lectures on

- (a) **General Marketing.**
- (b) **Comparative Nutritive Values**, and money values, of various foods. Study of charts and dietetic tables, preparation of dieteries.
- (c) **The Chemistry of the Human Body.** (1) Its composition. (2) The Chemistry of Digestion.
- (d) **The Effect of Cooking** upon the digestibility of foods. Necessity for a mixed diet.
- (e) **Waiting-maids Course** (4 weeks).

Laboratory work.

- (a) **General Cookery.** Preparation of entrees, croquettes, salads, pastry, puddings and sauces.

3. One lecture and three laboratory periods a week. Four hours credit. Third Term.

Lectures on

First Aids to the Injured, and on general nursing.

Laboratory work.

- (a) **General Cookery.** Four weeks. Including cakes, desserts, frozen dishes, etc.; and the ordering, preparation and serving of a dinner to guests.
 - (b) **Invalid Cookery.** Six weeks. Including the preparation of such dishes as may be healthful and appetizing during illness or convalescence.
4. One lecture, three laboratory periods a week. Four hours credit. First Term.

Lectures on

Household Economics:

- (a) The situation of a house, the planning and construction of a house from attic to cellar; light, heat, ventilation, water supply, plumbing, sewerage, disinfection.
- (b) The ordering of house-work.
- (c) Simple household accounts and bookkeeping.
- (d) Laundry work.

Laboratory work.

- (a) Canning, jelling, preserving, pickling, etc. Four weeks.
 - (b) Chafing dish. Three weeks.
 - (c) Laundry work. Five weeks. Washing, ironing, and general care of underclothing (silk, flannel and merino), linens, starched clothes, laces and embroideries.
5. One lecture, with two practice periods in sewing and one in millinery a week. Four hours credit. Second Term.

Lectures on

Production and Manufacture of Cotton, wool, flax, silk, etc.; the choice and treatment of various materials; study of line, form, color and texture as applied to dressmaking and millinery. Artistic and hygienic dress considered.

Practice work.

- (a) **Plain Sewing.** Practice in the different stitches, drafting and making white goods by hand and by machine.
 - (b) **Millinery.** Making bows, facing and finishing brims, trimming simple hats.
6. One lecture, with two practice periods in sewing and one in millinery a week. Four hours credit. Third Term.

Lectures on

Historic Costumes illustrated.

Practice work.

- (a) **Sewing.** Drafting and making an unlined dress. Drafting and making a cloth skirt. Drafting, matching and making a striped house-jacket.
 - (b) **Millinery.** Making and trimming covered hats and bonnets, making a shirred hat.
7. One lecture, with two practice periods in sewing and one in millinery a week. Four hours credit. First Term.

Lectures on

Art and its Applications.

Practice work.

- (a) **Sewing.** Drafting and fitting waist linings. Drafting and making close fitting waist. Drafting and making princess gown.
 - (b) **Millinery.** Designing and making an evening hat or bonnet. Work with fancy straws and mourning goods.
8. One lecture, with two practice periods in dressmaking and one in art needle work weekly. Four hours credit. Second Term.

Lectures on

History of Domestic Art.

Practice work.

- (a) **Dressmaking.** Designing, drafting, fitting and making an evening gown and fancy waist.
 - (b) **Art Needlework.** Drawn work, lace work and simple embroidery.
9. One lecture, with three practice periods in tailoring weekly. Four hours credit. Third Term.

Lectures on

Art in the Household.

Practice work.

Designing, Drafting and making of a tailor suit and lined jacket.

DRAWING

Associate Professor Bradford, Mr. French, Mr. Lewis

1. **Freehand Drawing.** Practice and occasional Lectures. Pencil, charcoal, pen and water-color drawing from copies, models and plaster casts. One drawing period a week, three terms, Industrial Arts. Two drawing periods a week, first term, Short Mining and Domestic Science. Two drawing periods a week, first and second terms; all four-year Engineering Courses. Three drawing periods a week three terms, Architecture.

2. **Lettering.** Practice and occasional Lectures.
Two drawing periods a week, third term, Industrial Arts, and Short Mining.
Three drawing periods a week, third term, Ceramics, Civil, Electrical, Mechanical and Mine Engineering, and Architecture.
This Course must be preceded by course 1.
3. **Mechanical Drawing.** Lectures or recitations, one period a week. Practice two periods a week. All Engineering, Industrial Arts, Architecture. Subjects: Orthographic, Isometric and Oblique Projection and elementary Working Drawings. First term.
Lectures or recitations two periods a week, Practice one period a week, in Industrial Arts and in all Engineering Courses except Civil Engineering; three periods a week in Civil Engineering and Architecture. Subject: Descriptive Geometry. Second term.
Lectures or recitations, one period a week. Practice, two periods a week in Engineering Courses; four periods a week in Architecture. Subject: Shades, Shadows and Perspective. Third term, in all four-year Engineering and Industrial Arts Courses and the Course in Architecture. First term in the Short Mining and Domestic Science Courses.
This Course must be preceded by Course 2.
4. **Draughting and Blue-printing.** Practice and occasional Lectures. Three periods a week, second term. Arranged especially for the students in the Short Mining Course. This Course must be preceded by the first term of Course (3).
5. **Technical Drawing.** Lectures and Practice. Rules and methods for working drawings, tracing, blue-printing, machine design and practice in making same to represent form and dimensions for shop use. Three periods a week. First term, Mechanical and Electrical Engineering Courses. This Course must be preceded by Courses (2) and (3).
7. **Photography.** Lectures and Practice. Lectures: Optics of Photography, chemistry of photography, exposing and developing, printing, lantern slides, orthochromatic photography and some of the applications of photography. Practice in outdoor, interior, instantaneous and flash-light photography, copying, lantern slides, and printing. Two periods a week, Ceramics, Architecture, first term. Civil, Mechanical and Mine Engineering, third term. The first term of this Course is elective.
8. **Mechanical Drawing.** Lectures and Practice. Geometric and Projection Drawing. Two periods a week, first and second terms, Industrial Arts.
10. **Mechanical Drawing.** Lectures and Practice. Arranged especially for the students in Agriculture and Horticulture. Two periods a week, first term.
11. **Mechanical Drawing.** Lectures and Practice. Arranged especially for the students in Short Course in Ceramics, five periods a week, third term.
12. **Clay Modeling.** Modeling in Clay and Casting in Plaster, ornamental forms from designs, photographs, nature and original designs. Two periods a week; first, second and third terms.
This Course must be preceded by Course 1.
Domestic Science Course, second term. Architectural Course, second and third terms. This course must be preceded by Course (1).
13. **Technical and Decorative Design.** Lectures and Practice. Lectures on the principles of decorative design in monochrome, color and relief, and practice in the same. Two periods a week; first, second and third terms.

14. **Pen Drawing.** Two periods a week, first term. Arranged especially for the Course in Architecture. This Course must be preceded by Course (1).
15. **Technical Drawing.** Lectures and Practice. House Designing. Five periods a week, third term. Domestic Science.

ARCHITECTURE

1. **Orders of Architecture.** Detail Drawing of the Orders, to accompany the study of Ancient Art. One lecture, and four practice periods a week, second term.
2. **Styles of Architecture.** Lectures and drawing of Architectural Details representing the characteristic styles in Architecture. One lecture, and four practice periods a week, third term.
3. **Designing.** Lectures and Designing of Architectural structures adapted to modern requirements. Five periods a week; first, second and third terms.
4. **Specifications.** Lectures and Practice in preparing Specifications for Architectural Structures. Two periods a week, first term.
5. **Decoration and Ornament.** Lectures. The practice part of this Course will be incorporated in Courses (3) and (8). Three periods a week, second term.
6. **Estimates.** Lectures and Practice in preparing estimates for structures designed in Courses (3) and (8). Four periods a week, third term. The duties of a superintendent will be considered in this Course.
7. **Heating and Ventilating.** Lectures. The practical applications of this Course will be incorporated in Courses (3) and (8). Five periods a week, second term.
8. **Designing.** Lecture and Practice. Designing of buildings requiring steel and fire-proof construction. Five periods a week, third term.

ECONOMICS

(See History and Political Science.)

ELECTRICAL ENGINEERING

Associate Professor Caldwell

2. **Electrical Engineering.** Lectures, Recitations and Problems. Theory of dynamo-electric machinery, including direct current and alternating current generators and motors; methods of regulation and control; circuits, lamps, and auxiliary apparatus; storage batteries; applications of electricity to street car and mine working; design, construction, and management of plant. Five times a week. First, second and third terms.
3. **Electrical Designing.** Including D. C. and A. C. generators and motors, transformers, distribution, etc. Three times a week, through the year.
4. **Electrical Laboratory.** A full experimental course in the handling and testing of generators, motors, storage batteries, circuits, etc. Three half days a week. First, second and third terms.
3. **Electrical Engineering.** A general course, with work in Class-room and Laboratory. Three times a week. First, second and third terms. [Fourth year Civil, Mechanical and Mine Engineering.]

ELOCUTION AND ORATORY

Professor Fulton

ELOCUTION

The Science of Expression. Recitations and Collateral Reading. Text-book: Fulton and Trueblood's *Practical Elocution*. Required in the first year in the English Course in the College of Arts, Philosophy and Science; and elective in all courses in the second, third, and fourth years of residence.

51. Man's Triune Nature. Delsarte Theories. Study and Development of the Vocal Organs. Physical Development. Respiration. Articulation. Pronunciation. Emphasis. Vocal Culture for Purity and Strength of Voice. Study and Drill in the Vocal Elements: Quality, Force, Form, Degree, and Stress, with their various combinations and illustrations. Theoretical Study of the Principles of Action. Illustrative Extracts. Twice a week. First semester.

52. Vocal Culture for Compass, Flexibility, and Sustaining Power of Voice. Physical Development continued. Study and Drill in the Vocal Elements: Pitch, Degree, Compass, Change, Melody, Cadence, Time, Quantity, Pause, Movement, Rhythm, and Rate. Tone Color. Conception of Gesture. Actional Composition, Forensic Deportment. Technique of Action. Illustrative Extracts. Application of all Elements to a few Selections entire. Twice a week. Second semester.

ORATORY

The Art of Expression. Readings, Recitations, Speeches, Oratory, and Orators. Lectures, Recitations, and Prescribed Readings. Texts: Fulton and Trueblood's *Choice Readings* and *College Critic's Tablets*. Each class limited to twenty students, and open as an elective only to second, third and fourth year students who have completed Courses 51 and 52.

53. Vocal Culture and Drill in Action indicated by the individual needs of class members. Rostrum-Business. Study of Poetry as a representative Art in Oratory. Lectures on the Kinds of Discourse, Construction of Speeches, Forensic Oratory, Argumentation, Extempore Speaking, and Truth, Personality and Art in Oratory. Technical Training in Rendition. Analysis and Study of Readings. Recitations and Personations, including the oratorical scenes from *Julius Cæsar* as a study in Oratorical and Dramatic Effect. Criticism upon each student's rendition from memory of four selections differing in style, and one extempore speech on a social, religious, scientific, literary or political topic of present interest. Oral Discussions and Debates on leading questions of the day required of each student. Twice a week. First semester.

54. Individual Vocal and Actional Drill continued. Oratorical Action, Lectures on Sacred, Panegyric and National Oratory, Eloquence, the Sources of Power in Oratory, and Oratorical Criticism. Study of the following ancient and modern orators: Demosthenes, Cicero, St. Paul, Chrysostom, Savonarola, Luther, Bossuet, Mirabeau, Kossuth, Castelar, Chatham, Burke, Erskine, Webster, Clay, Calhoun, Lincoln, Phillips, Beecher and Gladstone. From the study of these orators each student is required to prepare and deliver one Biographical Oration, one Extemporaneous Topical Speech on some event in the career of the orator under consideration, one Declamation of a portion of some admired oration of the orator that day considered, and one Critique upon the style and delivery of the oration delivered. Close Criticism upon the Thought, Composition and Delivery of Original Formal Orations, one of which is required of each member of the class. Twice a week. Second semester.

NOTE.—The selection and number of great orators studied will be subject to change according to the number and individual needs of the students of each class from year to year.

SHAKESPEARE AND THE DRAMA

The Art of Expression. Lectures, Recitations, Plays and Prescribed Readings. Texts: Hudson's *Expurgated Shakespeare*, Dewitt's *Standard Plays*, and Gerwinus's *Commentaries*. Class limited to twenty students, and open as an elective only to third and fourth year residents who have completed Elocution Courses 51 and 52, and are taking or have completed English Literature 57 and 58.

55. Technical Drill in Voice and Action indicated by the interpretative necessities of the plays studied. Impersonative Action. Stage-Business. Lectures on Dramatic Technique, and the History of the Drama and great Dramatists. Analysis and incidental reading of one Modern Play. Plays offered: Knowles—*The Hunchback*; Halm—*Ingomar*; Schiller—*Mary Stuart*; Bulwer-Lytton—*Richelieu*; Knowles—*Virginus*; and Sheridan—*The School for Scandal*. Analysis and study of the Characters, Plot, and Incidents of one of Shakespeare's Tragedies; with a careful reading of the entire Play, and rendition from memory of the principal scenes. Plays offered: *Anthony and Cleopatra*, *Romeo and Juliet*, *Julius Caesar*, *Hamlet*, *Macbeth*, and *Othello*. Twice a week. First semester.

56. Technical Drill continued. Lectures on Dramatic Criticism, and the Life and Methods of the Great Actors. Original Essays on assigned Characters of the Plays under consideration. Rehearsals of the tragedy studied in the preceding semester. Analysis and study of the Characters, Plot, and Incidents of one of Shakespeare's Comedies; with expressional reading of the entire play, and rendition from memory and with appropriate action of the principal scenes. Plays offered: *Merchant of Venice*, *Much Ado About Nothing*, *Twelfth Night*, and *As You Like It*. Twice a week. Second semester.

ENGLISH LITERATURE

Professor Barrows

FIRST SEMESTER

- 51. **An Introduction to English Literature.** Four times a week. (Must precede all other courses in this semester.)
- 53. **Poetry, from Spencer to Milton,** exclusive of the Drama. Twice a week. (Not offered in 1897-98.)
- 55. **The English Bible:** Old Testament. Once a week.
- 57. **Shakespeare.** Three times a week.
- 59. **The Novel.** Three times a week. (Not offered in 1896-97.)
- 61. **From Dryden to Johnson.** Twice a week. (Not offered in 1896-97.)
- 63. **Prose, from Cowper to Ruskin,** exclusive of Fiction. Three times a week. (Not offered in 1897-98.)
- 65. **Masterpieces.** Three times a week.

SECOND SEMESTER

- 52. Repetition of Course 51. Four times a week. (Must precede all other courses in this semester.)
- 54. **Prose, from Spencer to Milton.** Twice a week. (Not offered in 1897-98.)
- 56. **The English Bible:** New Testament. Once a week.
- 58. **The Drama,** from the Miracle Plays to the Closing of the Theatres. Three times a week.
- 60. **The Drama since the Restoration.** Twice a week. (Not offered in 1896-97.)

62. **American Literature.** Three times a week. (Not offered in 1896-97.)
64. **Poetry, from Cowper to Browning,** exclusive of the Drama. Three times a week. (Not offered in 1897-98.)

Masterpieces. Three times a week.

Courses 65 and 66 are open to competent graduates, and to undergraduates who have taken all other Courses offered in the same semester.

Courses 59, 60, 61 and 62 alternate with 53, 54, 63 and 64.

ENTOMOLOGY

(See Zoology and Entomology.)

GENERAL CHEMISTRY

(See Chemistry)

GEOLOGY

Professor Orton, Mr. Bownocker

COLLEGE OF ARTS, PHILOSOPHY AND SCIENCE

FIRST SEMESTER

51. **Cosmical Geology,** Lithological Geology, Dynamical and Structural Geology. Books of reference used by students in preparation of their work: Green's *Physical Geology*, Geike's *Text-book of Geology*, LeConte's *Elements of Geology*, Hunt's *Chemical Geology*, Daubree's *Geologic Experimentale*. Five times a week.
53. **Paleontology.** Museum work. Determination of groups of Ohio fossils.
55. **Petrography I.** Laboratory and lectures. Optical crystallography, with practical exercises. Practical determination of rock-forming, macroscopically and microscopically. Study of the igneous rocks in the hand specimen and thin section. Twice a week. The Sturtz rock collection and Voight and Hochgesang thin sections of typical minerals and rocks will be carefully studied. Books of reference: Mitchel Levy—*Les Minneaux des Roches*; Rosenbusch—*Mikroskopische Physiographie der Petrographisch Wichtigen Mineralien*, 3d ed; *Mykroschpische Physiographie der Massigen Gesteine*, 2d ed.; Teall's *British Petrography*; Spottiswoode's *Polarization of Light*. Pre-requisites: Chemistry, 51 and 52; Metallurgy, 52 (Mineralogy and Crystallography.)
57. **Petrography II.** Laboratory and lectures. Study of the igneous rocks, the crystalline schists and the metamorphic rocks. Five times a week. Books of reference as in Course 55, with free use of the French, German and English petrographical literature and publications on the crystalline schists and metamorphic rocks. Pre-requisites as in Course 55, with the addition of Geology.

SECOND SEMESTER

52. **Paleontological Geology,** Historical Geology. Books of reference used by students in preparation of their work: Nicholson's *Paleontology*, Zittel's *Paleontologie*, Ohio Geological Reports, *Paleontology of New York*. Five times a week.
54. Continuation of Course 53.
56. Continuation of Course 55. Twice a week.
58. **Petrography.** Five times a week.

COLLEGES OF AGRICULTURE, ENGINEERING AND PHARMACY

1. **Physical Geography.** Lectures and Recitations. Geikie's *Elementary Lessons*, supplemented by lectures, map drawing, and the study of geographical models. Five times a week. Third term.
2. **General Geology.** Cosmical Geology, Lithological Geology, Dynamical and structural Geology. Books of reference used by students in preparation of their work: Green's *Physical Geology*, Geikie's *Text Book of Geology*, LeConte's *Elements of Geology*, Hunt's *Chemical Geology*, Daubree's *Geologic Experimentale*. Five times a week. First term.
Paleontological Geology, Historical Geology. Books of reference used by students in preparation of their work: Nicholson's *Paleontology*, Zittel's *Paleontologie*, Ohio *Geological Reports*, *Paleontology of New York*. Five times a week. Second term.
3. **Economic Geology.** Lectures. Economic materials of stratified rocks, clays, limes, cements, coals, iron, ores, etc., phosphates, petroleum. Economic materials derived from veins and igneous rocks, gold, silver, copper, mercury. Gems. Books of reference used by students in preparation of their work: *Publications of U. S. Geological Survey*, *State Geological Surveys*, Phillips' *Ore Mining*. Five times a week. Third term.
4. **Elementary Geology.** Lectures and Recitations. Text-book: LeConte's *Class Book of Geology*. Five times a week. Second term.

GERMANIC LANGUAGES AND LITERATURES

Professor Eggers, Assistant Professor Mesloh

COLLEGES OF ARTS, PHILOSOPHY AND SCIENCE

FIRST SEMESTER

51. **Elementary German.** Four times a week.
53. **Science Reading.** Twice a week.
55. **German Literature.** Lectures upon outline of German Literature. Reading of Selections. Four times a week.
57. **The German Drama.** Lectures and reading of Selections. Three times a week.
59. **Faust I.** Twice a week. (Can be taken only by those who propose to take 60.)
61. **Middle High German.** Mediaeval Lyrics. Twice a week.
63. **Deutsche Culturgeschichte.** Lectures in German. Once a week.
65. **Colloquial Exercises.** For advanced students. Twice a week.
67. **Gothic.** Wright's Primer. The relation between Gothic and allied languages will be considered. Twice a week.
69. **Old Norse.** Lectures on German and Reading of Sagas.
The last two courses will alternate.

SECOND SEMESTER

52. Continuation of Course 51. Four times a week.
54. Continuation of Course 53. Twice a week. 53 and 54 must have been preceded by 51 and 52.
56. **German Lyrics.** Lectures and Reading of Selections. Four times a week. 55 and 56 must have been preceded by 51 and 52.

58. **The German Prose.** Lectures and Reading of Selections. Three times a week. 57 and 58 must have been preceded by 51, 52, 55 and 56.
60. **Faust II.** Twice a week.
62. **Mediaeval Epics.** Twice a week.
64. **Deutscher Aufsatz.** Lectures on methods of teaching German. Once a week. Courses 59, 60, 61, 62, 63 and 64, can be taken only with the approval of Professor Eggers; and must have been preceded by Courses 51, 52, 55 and 56, or their equivalents.
66. **Colloquial Exercises.** For advanced students. Twice a week.
68. **Old High German.** Lectures on Grammar and Literature. Reading of Selections. Twice a week.
70. **Comparative Grammar.** Lectures. Twice a week.
The last two courses will alternate.

COLLEGE OF AGRICULTURE, ENGINEERING AND PHARMACY

1. **Elementary.** Four times a week, through the year.
2. **Science Reading.** Twice a week, through the year.
4. **German Literature.** Four times a week, through the year.

COLLEGE OF ENGINEERING

1. **Lectures on History of Ancient Art.** Twice a week, through the year.

GREEK LANGUAGE AND LITERATURE

Professor Smith, Assistant Professor Hodgman

COLLEGE OF ARTS, PHILOSOPHY AND SCIENCE

Elementary Greek. White's *First Greek Book* and one or two books of Xenophon's *Anabasis*. This Course is designed to meet, partially, the wants of those who are deficient in the Greek required for admission. It cannot receive University credit. Five times a week, through the year.

FIRST SEMESTER

51. **Xenophon's Hellenica.** Greek Prose Composition. Four times a week.
53. **Lysias**—Select Orations (Morgan). Attic Antiquities. Four times a week.
55. **Thucydides**—Book I. **Demosthenes**, *Olynthiacs* and *Philippics*. Three times a week.
57. **Homer**—*Iliad* I-VI. Lectures on Epic Poetry. Three times a week.
59. **Lectures on History of Ancient Art.** Twice a week.

SECOND SEMESTER

52. **Herodotus**—Book VII. Myers' *History of Greece*. Four times a week.
54. **Homer**—*Odyssey*. Four times a week.
56. **Plato**: *Apology of Socrates* and *Crito*—**Euripides'** *Alcestis*. Three times a week.
58. **Sophocles' Oedipus Rex.** Lectures on Attic Drama. Three times a week.
60. Continuation of Course 59.

HISTORY AND POLITICAL SCIENCE

COLLEGE OF ARTS, PHILOSOPHY AND SCIENCE

HISTORY

Professor Knight, Assistant Professor Siebert

Courses 51 and 52, in the order named, must precede all other Courses in European History; except that Course 53 may be taken in connection with Course 51, and Course 54 in connection with Course 52.

FIRST SEMESTER

51. **General History of Europe to the Close of the Middle Ages.** Lectures, text-books and collateral readings. Thatcher and Schwill, *Europe in the Middle Ages*. Lectures twice a week, quiz once a week. Three times a week. Two sections.
53. **Political and Constitutional History of England to the Accession of the Stuarts.** Lectures, text-book and assigned readings. Gardiner's *Student's History of England*. Three times a week.
55. **Political and Constitutional History of the United States.** Lectures, text-books and prescribed readings. Hart's *Formation of the Union*; Wilson's *Division and Re-union*. Four times a week. This Course is repeated in the Second Semester (as Course 56). Of students who are required to take this subject, those whose names begin with the letters from A to K will take it in the First Semester; others will take it in the Second Semester (as Course 56).
57. **History of Europe from 1789 to 1815.** The French Revolution. Lectures, recitations and collateral reading. Stephen's *Europe, 1789-1815*. Three times a week.
59. **Roman History and Institutions.** Lectures and text-book. Pelham, *History of Rome*. Three times a week.
61. **Pro-Seminary for research in work in American History and Political Science.** Two hours a week (at one meeting). Open only to those who have had Course 55 or 56, or equivalent work in American History, and Course 51 or 52 in Economics. All students who elect their major study in the department of History and Political Science must take this course in either the third or fourth year, preferably in the fourth.

SECOND SEMESTER

52. **General History of Europe from the close of the Middle Ages to the French Revolution.** Lectures, text-book and collateral reading. Duruy's *Modern History*. Lectures twice a week, quiz once a week. Three times a week. Two sections.
54. **Political and Constitutional History of England from the Accession of the Stuarts to the present time.** Lectures, text-book and assigned readings. Gardiner's *Student's History of England*. Three times a week.
56. **Political and Constitutional History of the United States.** Lectures, text-books and prescribed reading. Hart's *Formation of the Union*; Wilson's *Division and Re-union*. Four times a week. (This is a repetition of Course 55 and will be taken in the Second Semester by those students (of whom it is required) whose names begin with letters from L to Z).

- 58. **History of Europe since 1815.** Lectures, text-book and assigned reading. Fyffe's *Modern Europe*. Three times a week.
- 60. **History of the Period of the Protestant Reformation.** Lectures and text-book. Hausser's *Era of the Reformation*. Three times a week.
- 62. **Pro-seminary for research work in American History and Political Science.** Two hours a week (at one meeting). This is a continuation of Course 61, and is open only to those who have had Course 61. All students who elect their Major Study in the department of History and Political Science must take this course in either the third or fourth year, preferably in the fourth.
- 64. **American Archaeology and Anthropology.** Lectures and text-books. Twice a week. Not offered in 1897-98.
- 66. **Teachers' Course in United States History.** Two hours. Open only to students in the fourth year who have had at least one course in Pedagogy. Will not be given unless elected by at least ten students.

ECONOMICS

Professor Knight, Assistant Professor Clark

FIRST SEMESTER

Course 51 or Course 52 must precede all other Courses.

- 51. **Elements of Political Economy.** Recitations, lectures and individual investigations. Walker's *Political Economy*. Two sections. Four times a week. This Course is repeated in the Second Semester (as Course 52.) Of students who are required to take the subject, those whose names begin with the letters L to Z will take it in the First Semester; others will take it in the Second Semester (as Course 52.)
- 53. **The History of Industrial Society.** Lectures and assigned readings. Three times a week.
- 55. **Practical Problems in Economics.** A rapid study of immigration, money, railroads, crises and tariff. Lectures and collateral readings. Twice a week.
- 57. **The Transportation Problem.** Lectures and quiz. Twice a week.
- 59. **History of Political Economy.** Text-books and lectures. Ingram's *History of Political Economy*. Twice a week. Not offered in 1897-98.

SECOND SEMESTER

- 52. **Elements of Political Economy.** Recitations, lectures and individual investigations. Walker's *Political Economy*. Two sections. Four times a week. (This is a repetition of Course 51, and will be taken in the Second Semester by those students (of whom it is required) whose names begin with the letters from A to K.)
- 54. **The History and Theory of Socialism.** Lectures, text-books and collateral readings. Ely's *French and German Socialism*; Schaeffle's *Quintessence of Socialism*. Twice a week.
- 56. **Industrial and Social Reforms.** A study of the labor problem, charities, monopolies, etc. Lectures and collateral readings. Twice a week.

58. **Money and Banking.** Lectures and collateral readings. Twice a week.
60. **Principles of the Science of Finance.** Lectures and text-book. A study of government financiering, the budget, etc. Adam's *Principles of Public Finance*. Three times a week. Not offered in 1897-98.

POLITICAL SCIENCE

Professor Knight

FIRST SEMESTER.

51. **International Law.** Lectures and text-book. A study of public international law and of the important modern treaties. Lawrence's *Principles of International Law*. Twice a week. Open only to those who have had Courses 51, 52 and 55 (or 56) in History. Not offered in 1898-99.
53. **Political Institutions of the United States.** Lectures and recitations. A study of the origin and nature of the political institutions of the United States, and an analysis of the form and powers of the government. Bryce's *American Commonwealth*; Burgess's *Political Science*. Three times a week. Open only to students who have had History 55 or 56.

SECOND SEMESTER

52. **Municipal Government.** Lectures and collateral reading. A study of the development and status of modern municipalities, and a comparative study of recent American municipal charters. Twice a week.
54. **Comparative Political Institutions of Europe and America.** Lectures, recitations and collateral readings. A comparative study of the political institutions and governmental forms and powers in the United States, England, Germany, France and Switzerland. Burgess's *Political Science and Constitutional Law*. Three times a week. Course 54 must be preceded by Course 53.

COLLEGE OF AGRICULTURE

HISTORY

5. **Political and Constitutional History of the United States.** (See Course 55 in the College of Arts). Four times a week. First Term and first half of Second Term.

ECONOMICS

1. **Elements of Political Economy.** (See Course 51 in the College of Arts). Four times a week. Last half of Second Term, and Third Term.

HORTICULTURE

Professor Lazenby

1. **Elements of Horticulture.** Lectures and practice in laboratory, greenhouse, gardens, orchard, ornamental grounds and forests. A study of special garden crops, preparation of soil, drainage and irrigation, fertilizers, tools and implements, buildings.
Greenhouse construction and management; crops of the vegetable forcing-house.

Propagation, multiplication, germination, transplanting, budding, grafting and pollinating.

Four times a week, through the year.

5. **Pomology and Viticulture.** Four times a week. First term.
6. **Vegetable Gardening and Seed Growing.** Four times a week. Second term.
7. **Small Fruit Culture.** Including the theory and practice of spraying plants. Four times a week. Third term.
8. **Elements of Floriculture.** Management of house plants, ferneries, warden cases, climbing vines and flowering bulbs. Twice a week. First term.
9. **Commercial Floriculture.** Twice a week. Second term.
10. **Amateur or Home Flower Gardening.** Twice a week. Third term.
11. **Arboriculture.** Lectures and field work. A study of native trees and shrubs; their uses for shelter, shade and ornament; method of propagation, culture. Twice a week. First term.
12. **Forestry.** Lectures and recitations. A study of the influence of forests upon soils, crops and climate; value of trees for timber; how to improve existing woodland; establishment and management of plantations of forest trees; forestry in Europe. Twice a week. Second term.
13. **Landscape Gardening.** Lectures and practice. The principles of æsthetics as applied to natural scenery; the adornment of home grounds, including landscape engineering, landscape architecture and landscape horticulture. Twice a week. Third term.

INDUSTRIAL ARTS AND SHOPWORK

INDUSTRIAL ARTS

Professor Williston, Mr. Knight, Mr. Weick, Mr. Sleffel

1. **Tools and Machines.** Lectures and recitations on hand and machine tools and the principles underlying their construction and operation, and materials used in construction.
2. **Designing.** Problems in design, to accompany Course 1. Three times a week. Second and third terms.
3. **Shop Equipment, Appliances and Management.** A continuation of Course 1. Three times a week. Third term.
4. **Advanced Designing.** A continuation of Course 2. Three drawing periods a week. Three terms.
5. **Workshop Appliances.** Lectures and problems in shop methods and means of turning out work economically for the market. Twice a week. Second term.

SHOP WORK

1. **Carpentry and Pattern Making.** Exercises and practice in carpentry, wood-turning and pattern making, including sawing, planing, mortising, splicing, framing and other work involving the use of the ordinary carpenter tools; center and chuck turning; and the making of patterns and core boxes.
2. **Forging.** Exercises and practice in iron and steel forging, including such operations as drawing, bending, forming, upsetting, welding and the making and tempering of punches, drills, chisels, lathe tools, springs.

3. **Foundry Work.** Exercises and practice in tempering sand and preparing moulds of machine parts in the sand, core-making, melting iron and brass, and pouring castings.
4. **Chipping and Filing.** Exercises and practice in vise work, including surface chipping in cast and wrought iron, surface filing, squaring, fitting, finishing, and the scraping of surface plants.
5. **Machine Work.** Exercises and practice in hand-turning in iron and brass on speed lathes; in straight and taper turning, boring, fitting, chucking, thread-cutting on engine lathes.
6. **Advanced Machine Work.** Exercising and practice on planer, shaper, drill, milling and grinding machines, the construction of working parts of actual machines, and making, tempering and grinding standard plugs, counter bores, milling cutters, drills, taps, reamers.

LATIN

Professor Derby, Assistant Professor Hodgman

COLLEGE OF ARTS, PHILOSOPHY AND SCIENCE

FIRST SEMESTER

51. **Cicero—Cato Major; Livy—Books I and II.** Four times a week.
53. **Pliny—Letters; Horace—Satires.** Four times a week. Open to those who have had Courses 51 and 52.
55. **Cicero—Letters; Horace—Epistles; Roman History.** Four times a week. Open, with consent of instructor, to those who have taken Courses 51 and 52. Elective, *three times a week*, open to those who have taken Courses 51, 52, 53 and 54.
57. **Latin Rhetorical Writers—Cicero, Quintilian—Selections.** Three times a week. Open to those who have had 51, 52, 53 and 54.
59. **Pharmaceutical.** Five times a week.
61. **Teachers' Course.** Twice a week. Course 61 must be preceded by Courses 51, 52, 53 and 54.

SECOND SEMESTER

52. **Plautus—Terence.** Four times a week.
 54. **Tacitus—Histories; Juvenal—Satires.** Four times a week.
 56. **Tacitus—Annals; Martial—Selections; Roman Antiquities.** Course 56 must be preceded by Course 55. Four times a week as a substitute for Course 54. Three times a week as an elective.
 58. **Latin Poets—Selections.** Three times a week. Course 58 must be preceded by four Courses in Latin.
 60. **Pharmaceutical.** Continuation of Course 59.
 62. Course 61 continued.
- Courses 51 and 52 are required of the first year students in Arts and in Latin Philosophy.
Courses 53 and 54 are required of the second year students in Arts and in Latin Philosophy.

COLLEGE OF PHARMACY

1. **Pharmaceutical.** Five times a week. Three terms.

LAW

FIRST YEAR

Elementary Law (Robinson, Blackstone, Walker). First Term.

Contracts (Bishop); Criminal Law (Clark); Elementary Law, Sales, (Tiedeman); Torts (Cooley). Second term.

Contracts; Agency (Meechem); Common Law Pleading (Shipman); Criminal, Law; Elementary Law; Torts. Third term.

SECOND YEAR.

Bailments (Lawson-Croswell); Code Pleading (Phillips); Commercial Law (Tiedeman); Evidence (Underhill); Study of Cases (Wambaugh). First term.

Real Property (Tiedeman); Code Pleading; Commercial Law; Evidence; Moot Court. Second term.

Construction of Commercial and Trade Contracts (Jones); Code Pleading; Evidence; Moot Court; Partnership (Parsons); Real Property. Third term.

THIRD YEAR

Corporations (Private); Constitutional Law, Federal and State (Black); Equity Jurisprudence (Fetter); Insurance; Municipal Corporations (Tiedeman); Probate Practice. First term.

Constitutional Law, Federal and State; Corporations (Private); Equity Jurisprudence; Insurance; International Law, etc.; Municipal Corporations; Circuit and Supreme Court Practice, etc.; Probate Practice; Trial Practice. Second term.

Federal Practice; Insurance; Corporations (Private); Negligence of Municipal Corporations (Jones); Probate Practice; Trial Practice; Thesis. Third term.

MATHEMATICS

Professor Bohannon, Associate Professor Ray, Assistant Professor McCoard, Mr. Arnold, Mr. Swartzel, Lieutenant Martiu, Mr. Kuhn.

A. TERM COURSES

1. **Elementary Algebra.** *Venable.* Five times a week. First term. (Short Course in Agriculture).
2. **Elementary Algebra.** *Wentworth.* Five times a week. Three terms.
3. **Plane Geometry.** *Venable.* Five times a week. First or second terms.
- 3a. **Plane Geometry.** *Venable.* Five times a week. Second term. (Short Course in Agriculture).
13. **Solid Geometry.** *Venable.* Five times a week. Second term.
14. **Plane Trigonometry.** *Loney.* Five times a week. First or third terms.
15. **Analytical and Spherical Trigonometry.** *Loney,* with notes on Spherical Trigonometry. Twice a week. Second term.
16. **College Algebra.** *Taylor.* Three times a week. Second term.
17. **Plane Analytics.** *Loney.* Five times a week. Third term.
18. **Analytics and Differential Calculus.** *Loney. Venable. Edwards.* Five times a week. First term.
19. **Differential Calculus.** *Edwards.* Five times a week. Second term.

- 20. **Integral Calculus.** *Edwards.* Five times a week. Third term.
- 11. **Differential Equations.** *Edwards.* Once a week. First term.
- 8. **Least Squares.** *Merriman.* Twice a week. First term.

B. SEMESTER COURSES

FIRST SEMESTER

- 51. **Plane Trigonometry.** (*Crockett*) and 53, **Plane Analytics** (*Wentworth*). Three times a week.
- 55. **Plane Trigonometry** (*Loney*) and 57, **Algebra** (*Taylor*). Five times a week.
- 59. **Analytics** (*Loney, Venable*) and 61, **Differential Calculus** (*Edwards*). Five times a week.
- 63. **Advanced Mathematics.** Topics will be changed from year to year to meet the wishes of the students. Selections may be made from the following courses: (a) Advanced Calculus (*Picard, Houel*); (b) Differential Equations (*Johnson Murray, Forsythe, Craig*); (c) Higher Plane Curves (*Salmon*); (d) Advanced Analytical Geometry (*Casey, Salmon*); (e) Analytical Geometry of Three Dimensions (*Chas. Smith, Frost, Salmon*); (f) Theory of Equations (*Burnside and Panton*); (g) Modern Higher Algebra (*Chrystal, Salmon, Serret, Cole's Netto*); (h) Modern Geometry (*Cremona, Reye, Steiner, Von Staudt, Chas'es*); (i) Determinants (*Muir*); (j) Elliptic Functions (*Weber, Halphen, Durege, Hermite, Greenhill, Briot and Bouquet*); (k) General Theory of Functions (*Forsythe, Harkness and Morley, Tannery, Weierstrass, Durege, Thoame, Biermann*); (l) Potential Function (*Clausius, Riemann, Dirichlet, Peirce*); (m) Mathematical Theory of Electricity (*Mascart and Foubert*); (n) Higher Geodesy (*Clarke, Helmert, Jordan*); (o) Spherical Harmonics (*Byerly, Ferrers, Heine*); (p) Mathematical Optics; (q) History of Mathematics. Five times a week.
- 65. **Problems on all past work.** Once a week.

SECOND SEMESTER

- 52. **Elementary Calculus** (*Osborne*) and 54, **Theory of Equations.** Three times a week.
- 56. **Algebra** (*Taylor*), and 58, **Plane Analytics** (*Loney*). Five times a week.
- 60. **Calculus** and 62, **Differential Equations.** (*Edwards*). Five times a week.
- 64. Continuation of Course 63. Five times a week.
- 66. Continuation of Course 65. Once a week.

MECHANICAL ENGINEERING

Professors Magruder, and Williston Associate Professor Hitchcock

- 3. **Mechanism.** Lectures and recitations on the principles of mechanism and mechanical movements. Five times a week. Second term.
The accurate laying out of movements, embodying the principles of mechanism. Twice a week. Third term.
- 6. **Analytical Mechanics.** Five times a week. First and second terms.

7. **Strength of Materials.** Recitations and lectures on the elastic and ultimate resistance of the materials of engineering to stress and their use in structures and machines. Lectures on elementary hydraulics and the flow of water through orifices and pipes over weirs, and in streams, and on measuring the same. Five times a week. Third term.
8. **Thermodynamics.** Lectures and recitations on the transformation of heat and mechanical energies. Ideal indicator diagrams of steam, air and gas engines; the flow of gases through pipes and orifices. Five times a week. Third term.
9. **Prime Movers.** Lectures and recitations on steam and gas engines, turbine water wheels, valve movements and governors; their construction, operation, efficiency and economy. Five times a week. First term.
10. **Steam Boilers.** Lectures and recitations on steam boilers, furnaces, automatic stokers, gas producers and boiler appliances; their construction, operation, efficiency and economy. Five times a week. Second term.
12. **Experimental Engineering Laboratory.** Twice a week. First term. Third year.
13. The same. Four times a week. First term. Fourth year.
14. The same. Four times a year. Second term. Fourth year.
15. The same. Three times a week. Third term. Fourth year.
16. The same. Four times a week. Third term. Third year, Electrical Engineering.
17. The same. Three times a week. Second term. Fourth year, Civil Engineering.

Courses 12, 13, 14, 15, 16, 17, 24 and 25, in the Experimental Engineering Laboratory are arranged to meet the needs of the different students in obtaining experimental practice in the use and calibration of accurate measuring instruments; in testing illuminating and lubricating oils for friction, endurance, and the like; in the calibration and adjustment of gauges and springs; in testing the strength and elasticity of the materials of construction in tension, compression, torsion, flexure, shear, and impact; in the flow of liquids and gases; in the use of the steam engine indicator and transmission and absorption dynamometers; in testing of steam separators, injectors, steam pipe coverings; belt, rope and chain gearing; in setting valves and eccentrics; in making efficiency tests of simple and compound, condensing and non-condensing steam engines; of steam boilers and complete power plants; of gas and hot air engines; of pulsometer steam and centrifugal pumps; of hydraulic rams and of impulse and turbine water wheels.

18. **Machine Design.** Recitations on Unwin's *Machine Design*, with lectures on American Practice. Five times a week. First and Second terms.
19. **Machine Design.** Practical applications of the principles of machine design. Five times (ten hours' practice) a week. Third term.
20. **Hydraulic Machinery.** Recitations and lectures on pumping machinery. Twice a week. Third term.
21. **Thesis Work.** (See note, page 81). Five times a week. Third term.
22. **Timber and Masonry.** Lectures on the construction of foundations and structures in timber and masonry. Five times a week, the last three-fifths of second term.

23. **Materials of Construction.** Lectures on the materials used in architecture and building construction, and laboratory exercises on their properties. Five times a week. First term.
24. **Experimental Engineering Laboratory.** Three times a week. First and second terms. Elective to Third year and Fourth year engineers.
25. **Experimental Engineering Laboratory.** Twice a week. Third term. Fourth year, Civil Engineering.

METALLURGY AND MINERALOGY

Prof. N. W. Lord, Mr. Hass

COLLEGE OF ARTS, PHILOSOPHY AND SCIENCE

52. **Mineralogy.** Lectures, with frequent quizzes on notes and with study of specimens in the collection of minerals. A short introductory course is given on crystallography, illustrated by wooden models. Text book: Dana's *Manual of Mineralogy and Lithology*. Last nine weeks of Second semester.

COLLEGE OF ENGINEERING

2. **Mineralogy.** Lectures. Similar to Course 52 in College of Arts, Philosophy and Science, but more practical, and arranged so as to be preparatory to Determinative Mineralogy (Course 3). Three times a week. Third term.
3. **Determinative Mineralogy,** laboratory course in practical determination of minerals by physical and chemical tests. Each student is furnished with a set of apparatus, and works under an instructor's inspection. Brush's *Determinative Mineralogy* is used as a manual. Five times a week. Third term.
4. **Metallurgy.** A course of lectures upon fuel and its uses, iron and steel, copper, lead, gold and silver, their properties, tests, ores and details of the modes of reduction. The lectures are supplemented by a careful study of references to standard works and journals. Five times a week. First and second terms.
5. **Metallurgical Laboratory.** Lectures and laboratory work. Laboratory practice in the analysis of iron and steel, fuels and slags, and the assay of lead, copper and zinc ores by wet methods, using approved methods as practiced in technical laboratories of metallurgical works. Course 5 must be preceded by Agricultural Chemistry, Courses 1, 8, 9; or by General Chemistry, Courses 7 and 12. Five laboratory periods a week. Three terms.
6. **Assaying.** Laboratory work. Practical work in the assaying of gold, silver and lead ores, by furnace methods. Oral instruction, with references to standard books on assaying. Five laboratory periods a week. Second term.
7. **Metallurgical Construction.** Practice in the designing of furnaces and other metallurgical machinery, including detail drawings and estimates. Three times a week. First term. (Professors Lord and Ray.)
8. **Ore Dressing and Coal Washing.** Lectures. Instruction in the methods of concentrating and enriching ores and fuels by mechanical means. Lectures with reference to Rittinger's *Aufbereitung*; Callon's *Course d'Exploration des Mines*; Kunhardt's *Ore Dressing*, and various papers in technical journals. Twice a week. First term.

9. **Mineral Chemistry.** Lectures and laboratory practice. Lectures upon fire-damp, mine explosions, explosives, boiler waters, poisonous gases, iron ores; iron and steel, their properties and modes of manufacture; coal and coke. Five hours a week. Third term.

MILITARY SCIENCE AND TACTICS

Lieutenant Martin

1. **Military Drill.** Three times a week through the year.
2. **Tactics.** Lectures and recitations. Twice a week. Second term.
3. **Art of War.** Lectures and recitations. Twice a week. Second term.

MINE ENGINEERING

Associate Professor Ray

1. **Mine Surveying.** Lectures and field practice. This is similar to Course 4, but more elementary. The same text is used. The students have more practice in the drawing-room. Five times a week. First term.
2. **Ventilation and Haulage.** Lectures illustrated by experiments and maps of mines and models when possible, tests by safety lamps and anemometers, and solution of air distribution in coal mines. Five times a week. Second term.
3. **Mine Operating.** A course of lectures and practical instruction in mine book-keeping and accounts, cost of working, etc., particularly adapted to Ohio coal mining. Five times a week. Third term.
4. **Mine Surveying.** Field practice in the use of instruments for surface and underground surveys. Full notes are taken, and maps and plans made in the drawing room. Davies's *Surveying*, by Van Amringe, is used as a text-book. Five times a week. First term.
5. **Mine Engineering.** Lectures. Mine operating, mining machinery, ventilation, shaft-sinking, working out deposits, etc. Constant reference is required to the standard works and to the leading technical journals, with practice in designing mine plants, draughting and estimates. Five times a week. Through the year.
6. **Plans and Specifications.** Five times a week. Third term. [Professors Lord and Ray.]

PEDAGOGY

Professor Gordy, Mr. Wissler

FIRST SEMESTER

51. **Elementary Educational Psychology.** *Gordy's Lessons in Psychology.* The aim of this course is primarily to help those who take it study their own minds, and prepare them to study the minds of their pupils. Four times a week.
53. **History of Education.** Recitations, discussions, essays and lectures. Davidson's *Greek Education.* Four times a week.

55. **The Herbartian Pedagogy.** Recitations, discussions, essays and lectures. Herbart's *Science of Education*; DeGarmo's *Herbart*; DeGarmo's *Essentials of Method*; Lange's *Apperception*; Rein's *Pedagogics*. Four times a week.
57. **The History of Education in the United States.** Essays, reports and lectures. Twice a week

SECOND SEMESTER

52. **The History of Modern Education.** Recitations, discussions, reports, essays and lectures. Quick's *Educational Reformers*. Four times a week.
54. **History of Education.** Nettleships *Plato's Republic*. Twice a week.
56. **History of Education.** Bowen's *Froebel*; Blow's *Symbolic Education*. Twice a week.
58. **Philosophy of Education.** Laurie's *Institutes of Education*. Four times a Week.
60. **History of Education in the United States.** Twice a week.

PHARMACY

Professor Kauffman, Assistant Professor Dye

6. **Pharmacy.** General pharmaceutical processes. Lectures three times a week. First term.
7. **Pharmacy.** United States Pharmacopeia official preparations. Lectures twice a week. Laboratory practice daily. Second term.
8. **Dispensatories.** Official preparations. Lectures twice a week. Laboratory practice daily. Third term.
9. **Pharmaceutical Chemistry.** Unofficial preparations. The National Formulary. Lectures twice a week. Laboratory practice daily. First term.
10. **Extemporaneous Pharmacy.** Prescription practice. Lectures once a week. Laboratory practice three times a week. Second term.
11. **General Practice.** Lectures twice a week. Dispensing practice daily. Prescription practice daily. Third term.
12. **Materia Medica.** Official drugs and classification. Three times a week. First term.
13. **Materia Medica.** Official and unofficial drugs. Three times a week. Second term.
14. **Materia Medica and Therapeutics.** Synthetic Products. Poisons and Antidotes. Three times a week. Third term.
15. **Pharmaceutical Assaying.** Three times a week. First term.
15. **Methods of Manufacture.** Three times a week. Second and Third terms.
17. **General Pharmacy.** Two lectures, three elaboratory periods a week. Through the year.
18. **Laboratory.** Special work for Veterinary students. Five times a week. Third term.

COLLEGE OF ARTS, PHILOSOPHY AND SCIENCE

(Course Preparatory to Medicine.)

FIRST SEMESTER

51. **Pharmacy.** General pharmaceutical processes. Lectures three times a week.

SECOND SEMESTER

52. Continuation of Course 51, with Laboratory practice.

PHILOSOPHY

Professor Scott, Mr. Wissler

FIRST SEMESTER

51. **Psychology.** Four times a week. Required in the Courses for B. A., B. Ph. (L.), B. Ph. (M. L.), and for Medicine.
53. **Psychology.** Three times a week. Required in the Courses for B. Ph. (E.), B. Sc. and for Law and Journalism.
55. **Ethics.** Three times a week. Required in Course for B. Ph. (E.)
57. **History of Ancient and Mediaeval Philosophy.** Three times a week. Elective after Courses 51 and 52.
59. **Introduction to Philosophy.** Twice a week. Elective after Courses 51, 52, 56 and 57 or after Courses 53, 54, 55 and 56.
61. **Physiological and Experimental Psychology.** Twice a week. Elective.
63. **Leading Works in Philosophy.** Twice a week. Elective on the same conditions as Course 59.

SECOND SEMESTER

52. **Logic and Ethics.** Four times a week. Follows Course 51.
54. **Logic.** Three times a week. Follows Course 53.
56. **History of Modern Philosophy.** Three times a week. Required after Course 55. Also elective after Courses 51 and 52.
60. **Metaphysics.** Twice a week. Elective after Courses 51, 52, 57 and 56 or after Courses 53, 54, 55 and 56.
62. **Physiological and Experimental Psychology.** Twice a week. Elective.
64. **Leading Works in Philosophy.** Twice a week. Elective on the same conditions as Course 60.

PHYSICS

Professor Thomas, Assistant Professor Boyd, Mr. Kester

COLLEGES OF AGRICULTURE, ENGINEERING AND PHARMACY

2. **Mechanics and Heat.** Electricity and Magnetism, Sound and Light. Lectures and recitations. Three times a week. Through the year.
3. **Physics.** Extension of Course 2, with practice in solution of problems. Twice a week. Through the year.
4. **Electricity and Magnetism.** Lectures and recitations. Three times a week. First term. (Third year, Electrical Engineering.)

5. **Physical Laboratory.** Elementary manipulation. Length, mass and time measurements. Work in density, elasticity and in heat. Three times a week. Second and Third terms.
6. **Physical Laboratory.** Theory and practice of magnetic and electrical measurement, including the testing and standardizing of instruments; conductivity of conductors; insulations, capacity and resistance of insulated conductors and cables; temperature co-efficients; commercial measuring and testing instruments; strength and distribution of magnetic fields, magnetic moments, permeability; work in light including optical constants; spectroscopy; photometry of gas, electric and other lights. Five times a week, First, Second and Third terms. (Third year, Electrical Engineering.)
7. **Physical Laboratory.** Three to five times a week. Through the year. Course 7 must be preceded by Course 2.
9. **Physical Laboratory.** A second year's work in Physical Laboratory. Three times a week, with five hours' credit. Course 9 must be preceded by Course 7.

The work in the Physical Laboratory begins with exercises in length, mass and time measurements, making use of scales, tapes and bars, micrometer screws, micrometer microscopes, the dividing engine, the cathetometer, the balance, chronometers, chronoscopes, etc. This course is intended to give the student facility in the use of instruments, and knowledge of the theory of their construction and adjustment.

The determination of various physical constants follows, with elementary exercises in heat, light, electricity and magnetism; after which the student takes up such advanced work as his taste and skill permit. The experimental work is accompanied by instruction in methods and in the discussion of results.

COLLEGE OF ARTS, PHILOSOPHY AND SCIENCE

FIRST SEMESTER

51. **Mechanics, Heat, etc.** Three times a week. Second year, Science Course. Elective in the First year of the courses of Arts and Philosophy.
53. **Mechanics, Sound and Heat.** Lectures three times a week. Elective in the First year of the Courses of Arts and Philosophy. Required in the First year of the Course Preparatory to the Study of Medicine.
55. **Laboratory.** Three to five times a week.
57. **Laboratory.** Three to five times a week. Course 57 must be preceded by Course 55.

SECOND SEMESTER

52. **Electricity, Magnetism, etc.** Three times a week. Follows Course 51.
54. **Electricity, Magnetism, etc.** Three times a week. Follows Course 53.
56. **Laboratory.** Continuation of Course 55.
58. **Laboratory.** Continuation of Course 57.
60. **Laboratory.** Two hours a week. First year of Course Preparatory to the Study of Medicine.

PHYSIOLOGY

(See Anatomy and Physiology.)

POLITICAL ECONOMY

(See History and Political Science.)

POLITICAL SCIENCE

(See History and Political Science.)

RHETORIC AND ENGLISH LANGUAGE

RHETORIC

Professor Denney, Assistant Professor Taylor, Assistant Professor Graves

COLLEGE OF ARTS, PHILOSOPHY AND SCIENCE

FIRST SEMESTER

- 51. **Paragraph Writing.** Themes. Twice a week.
- 53. **Analysis of Prose.** Themes. Four times a week.
- 55. **Rapid Writing.** Preparation of articles for the Press. Once a week.
- 57. **Brief-Making and Argument.** Three times a week.
- 59. **Poetics.** Twice a week. Special permission necessary.
- 61. **Rhetorical Theory.** Special investigations, reports and discussions. Two hours a week. Students must have special permission to carry this work.
- 63. **Advanced Rhetoric.** Twice a week.

SECOND SEMESTER

- 52. **Practical Rhetoric.** Themes. Twice a week.
- 54. **Analysis of Prose.** Repetition of Course 53. Four times a week.
- 56. **Rapid Writing.** Continuation of Course 55. Once a week.
- 58. **Studies in Exposition.** Types of the English Essay; book reviews. Three times a week.
- 60. **Short Stories.** Lectures and Practice. Twice a week.
- 62. **Problems in Criticism.** Special investigations, reports, and a thesis. Two hours a week. Must be preceded by Course 61.
- 64. **Advanced Rhetoric.** Twice a week.

COLLEGES OF AGRICULTURE, ENGINEERING AND PHARMACY

- 1. **Paragraph Writing and Practical Rhetoric.** Themes and Exercises. Twice a week, three terms.
- 3. **Advanced Rhetoric.** Twice a week, three terms.
- 4. **Advanced Composition.** Twice a week, three terms.

ENGLISH LANGUAGE

Professor Denney

FIRST SEMESTER

- 51. **Old English** (Anglo Saxon). Prose. Twice a week.
- 53. **Middle English.** Prose and Poetry. Twice a week.

SECOND SEMESTER

- 52. **Old English** (Anglo Saxon). Poetry, History of the Language. Must be preceded by Course 51. Twice a week.
- 54. **Middle English and Historical English Grammar.** Twice a week.

ROMANCE LANGUAGES

I. FRENCH

Professor Bowen, Mr. Bruce

COLLEGE OF ARTS, PHILOSOPHY AND SCIENCE

FIRST SEMESTER

51. **Elementary French.** Four times a week. Grammar: Edgren's (Part I) or Joyues' Minimum, with written exercises. Reader: Super's (from Part II) or Whitney's (Parts I and II.) In this course the study of the language is taken up from the beginning. Stress is laid at first upon the acquisition of a correct pronunciation, after which the entire energy of the student is directed toward the attainment of a full and accurate reading knowledge of the language. Grammar and composition are made to contribute to this end.
53. **Science Reading.** Two times a week. A course introductory to the vocabulary of scientific literature, designed to familiarize the student with technical terms and style. Open to those who have completed Courses 51 and 52, or who have received credit for French as an entrance subject.
55. **Modern French Literature.** Four times a week. Contes and Novels: Bercy's Contes et nouvelles modernes: Balzac, Eugenie Grandet. Prose composition: Edgren's French Grammar [Syntax.] Lectures supplement the work; private reading required; systematic attention given to syntax and idiom. Open to those who have completed Courses 51 and 52, or who have received credit for French as an entrance subject.
57. **French Comedy.** Three times a week. Study of the growth of French Comedy, with work centering upon Molière [four plays], Regnard [Le Joueur] and Beaumarchais [Le Barbier de Séville]. Lectures and collateral reading. Open to those who have completed Courses 55 and 56.
59. **Advanced Prose Composition.** Once a week. Practice in speaking and writing French. Intended for advanced students who desire special training on the practical side of the language. Open to those who have completed Courses 55 and 56.
61. **French Tragedy.** Three times a week. Racine and Voltaire. Lectures and readings, with assigned topics, reports and discussions. Must be preceded or accompanied by Course 57.
63. **French Literature Before the Seventeenth Century.** Three times a week. Advanced work as in Course 61. Special study of la Chanson de Roland. Must be preceded or accompanied by Course 57. [Not offered in 1898-99.]

SECOND SEMESTER

52. **Modern Prose and Plays.** Continuation of Course 51. Four times a week. Historical and narrative prose; one or more prose comedies. Sight reading is emphasized.
54. **Science Reading.** Continuation of Course 53. Twice a week.
56. **Modern French Literature.** Continuation of Course 55. Four times a week. Lyric Poetry: Bowen's Modern French Lyrics. Drama: Comparative study of the classical and the romantic drama: Corneille, Horace; Hugo, Hernani.

58. **Recent French Prose Writers.** Three times a week. Bourget, Daudet, Zola, and others. Open to those who have completed Courses 55 and 56.
60. **Advanced Prose Composition.** Continuation of Course 59. Once a week.
62. **Chateaubriand and the Precursors of the Romantic Movement.** Three times a week. Lectures and readings, with assigned topics, reports and discussions. Must be preceded by course 57.
64. **The Development of the French Novel.** Three times a week. Advanced work, as in Course 62. Must be preceded by Course 57. (Not offered in 1898-99). Toward the close of the year lectures will be given on: Methods of teaching French and the teacher's equipment.

COLLEGES OF AGRICULTURE AND ENGINEERING

1. **Elementary French.** Four times a week throughout the year. Grammar and reader, modern prose and plays, as in Courses 51 and 52.
2. **Modern French Literature.** Four times a week throughout the year. The work is the same as in Courses 55 and 56. Open to those who have completed Course 1.
3. **Science Reading.** Twice a week throughout the year. The work is the same as in Courses 53 and 54. Open to those who have completed Course 1 (or an equivalent).

II. ITALIAN

Professor Bowen

51. **Grammar and Readings.** Two hours a week. First Semester. Grandgent's Italian Grammar and Bowen's First Italian Readings. Open to those who have completed Courses 51 and 52 (or an equivalent) in French.
52. **Goldoni and Dante.** Continuation of Course 51. Two hours a week. Second Semester.

III. SPANISH

Professor Bowen

51. **Grammar and Readings.** Twice a week. First Semester. Edgren's Spanish Grammar and Matzke's First Spanish Readings. Open to those who have completed Courses 51 and 52 (or an equivalent) in French. (Given in alternate years; will not be offered in 1898-99.)
52. **Calderon and Cervantes.** Continuation of Course 51. Twice a week. Second Semester.

SHOPWORK

(See Industrial Arts)

VETERINARY MEDICINE

Dr. White, Dr. Lavery, Dr. Boyd, Dr. Fredericks

COLLEGES OF AGRICULTURE AND VETERINARY MEDICINE

11. **Osteology.** Lectures illustrated with skeletons and anatomical preparations. Dissections. Five times a week. First term.
12. **Myology.** Splanchnology and Angiology. Practical dissections and demonstrations on cadavers. Five times a week. Second term.

13. **Lectures, Illustrated in the Dissecting Room and on Anatomical Models.** Five times a week. Third term. Books of reference and recommended for study: Chauvau's *Comparative Anatomy* (Fleming's translation); Strangeways; McFadyean; Mueller and Leisering.
14. **Lectures and General Pathology.** Five times a week. First term.
15. **Special Pathology and Therapeutics of Sporadic Diseases.** Non-infectious Internal Diseases. Five times a week. Second term.
16. **Special Pathology and Therapeutics of Non-infectious Diseases of the Horse, Ox, and Dog.** Five times a week. Third term.
17. **Diseases of the Cow.** Three hours a week. Second term.
18. **Surgical Diseases and Operations.** Lectures: illustrated by practical demonstrations by drawings, on living animals in the clinic, and on cadavers in the dissecting room. Five times a week. First, Second and Third terms. Books recommended: As text-book, Mueller's *Operative Veterinary-Surgery* (Dollar's translation). Liantard's *Manual of Operative Veterinary Surgery*, Beyer.
19. **Horse, Cattle, and Dog Clinic in the Veterinary Hospital.** Stationary and Ambulatory. The clinics are held at 10-11 A. M. (standard) and are free. Animals left in the Hospital are treated by the students of the junior and senior years, under the superintendence of the clinical professor.
20. **Special Pathology and Therapeutics of Infectious and Contagious Diseases.** Five times a week. First term.
21. **Special Pathology and Therapeutics of Infectious and Contagious Diseases.** Three times a week. Second term. Texts: Froehner-Freidberger, Williams, Robertson.
22. **General Therapeutics.** Lectures. Texts: Ellenberger and Hoffmeister. Five times a week. Third term.
23. **Obstetrics.** Lectures and demonstrations. Anatomy and pelvic organs. Diseases before and after parturition. Obstetrical operations and manipulations. Books: Fleming's *Obstetrics*. Three times a week. First, Second and Third terms.
24. **General Surgery.** Practical work, such as the more common operations which a regular practitioner would be called upon to perform. All this work is done by the student upon chloroformed live animals purchased for the purpose. Five times a week. First term.
25. **Anatomical Laboratory.** Practical work in Topographical Anatomy, as a review of Anatomy for senior students. Books: McFadyean, Schmaltz's Plates.
26. **Principles of Horse-shoeing.** Lectures and demonstrations. Includes all the diseases of the foot due to bad paring, shoeing, etc. Books: Leisering, Fleming.
27. **Meat Inspection.** Lectures on Inspection of Meat and Milk. Five times a week. Books: Walley, Ostertag.
28. **Anatomy.** Five times a week. First term.
29. **General Pathology.** Five times a week. Second term.
30. **Special Pathology and Therapeutics of Infectious and Contagious Diseases.** Five times a week. Third term.

ZOOLOGY AND ENTOMOLOGY

Professor Kellicott, Mr. Hine, Mr. Landacre

COLLEGE OF AGRICULTURE

1. **Invertebrate and Vertebrate.** Three times a week. Invertebrate, First and Second terms; Vertebrate, Third term.
3. **Economic Entomology.** Insects of Forest, Orchard and Garden. Five times a week. Third term.
4. **Economic Entomology.** Twice a week, through the year. This course must be preceded by Course I.
7. **Systematic and Practical Entomology.** Two lectures and one laboratory period a week. Third term.

COLLEGE OF ARTS, PHILOSOPHY AND SCIENCE

FIRST SEMESTER

51. **Comparative Zoology.** Two lectures and one laboratory period a week.
53. **Comparative Anatomy of Vertebrates.** A laboratory course. Three laboratory periods a week.
55. **Comparative Anatomy of Vertebrates.** A laboratory course. Five laboratory periods a week.
57. **Zoology and Anatomy.** Advanced laboratory. Three laboratory periods a week.
59. **Zoology and Anatomy.** Advanced laboratory. Five times a week.
61. **Entomology.** An advanced Practical Course. Five laboratory periods a week. This Course must be preceded by Courses 51 and 52, or 1, or 4, or 7 in the College of Agriculture.

ZOOLOGY

65. **Ornithology.** Two laboratory periods a week. Open to those who have had Zoology 51, or its equivalent.

SECOND SEMESTER.

52. Continuation of Course 51. Lectures twice a week. One laboratory period.
54. Continuation of Course 53. Three laboratory periods a week.
56. Continuation of Course 55. Five laboratory periods a week.
58. Continuation of Course 57. Three laboratory periods a week.
60. Continuation of Course 59. Five laboratory periods a week.
62. Continuation of Course 61. Five laboratory periods a week.

64. **Comparative Zoology.** Three lectures and one laboratory period a week.
66. Continuation of Course 65.

Courses 57, 58, 59, 60, 61, 62, must be preceded by Course 1 in the College of Agriculture, or Courses 51, 52, or 53-54, or 64; or an equivalent taken elsewhere.

The student may choose his work from any of the following:

- (a) The Exhaustive Anatomy and Histology of the Frog.
- (b) Comparative Anatomy of Invertebrates.
- (c) Invertebrate Embryology.
- (d) Vertebrate Embryology.
- (e) Comparative Neurology.
- (f) Cellular Biology.

A student whose major lies in Zoology may take two full years work, selected from subjects named in the foregoing list.

ENROLLMENT

1896-1897

COLLEGE OF AGRICULTURE AND DOMESTIC SCIENCE

FOUR YEAR COURSES—34

	Course	Debit hours	Credit hours	Address
Baer, Philip Jr., B. Sc. Agr.....				Canal Dover
Ball, Fred C	H. & F.	209	60	Mt. Vernon
*Britton, John C.....	Agr.	207	160	Mt. Gilead
*Clawson, Clarence	Agr.	204	136	Okeana
Closson, Clayton Drew.....	Agr.	204	88	Galena
Cunningham, John Ferguson, B. Sc.	H. & F.			Urbana
*Dallas, John Thomas.....	Agr.	207	118	Pine Valley
*Darling, Everett Clyde.....	Agr.	204	124	Nellie
*Erf, Oscar.....	Agr.	204	107	Monroeville
Flickinger, George A....	Agr.	207	167	York
Fitts, Rollin	Agr.	204	105	Elyria
Gilmore, William Henry	Agr.	207	147	Millersport
*Greenlee, Edward Hood.....	Agr.	204	19	Bridgeport
*Harry, Willis Grant.....	Agr.	204	45	Wooster
*Hayden, Cassius Clay	Agr.	204	46	Oakdale
Henderson, Frank A.	Agr.	204	110	McConnelsville
Hoff, Walter A	Agr.	204	137	Mogadore
Imes, Marion.....	Agr.	204	119	Bashan
Johnston, Fred S.....	Agr.	207	137	Pierpont
*Loomis, Humbert H.....	Agr.	207	130	Deerfield
*Miller, Merritt Finley	Agr.	204	55	Ridpath
Miller, Carl James.....	Agr.	207	149	Franklin
McCall, Arthur Gillet	Agr.	204	58	McGaw
McClelland, Chalmer Kirk	Agr.	207	164	Andover
McCormick, Earl Leander.....	Agr.	204	15	Gallipolis
Nettleton, Albert Warren.....	Agr.	207	155	Medina
*Newton, Sheldon Watrous	H. & F.	209	33	Boardman
Price, Homer Charles, B. Sc. Agr.....				Newark
Scott, Ernest, B. Sc. Agr.....				Columbus
Shellabarger, Marley Rolin, B. Sc. Agr.....				Garland
Steward, Charles Benjamin.....	Agr.	204	79	Marcy
Waid, Clarence William.....	H. & F.	208	144	Emery
*Waisman, Laura Anna	Dom. Sci.	198	54	Columbus
Whiley, Thomas Boyce	Agr.	204	42	Lancaster

*Preparatory work incomplete

SHORT COURSES

AGRICULTURE—44

	Debit hours	Credit hours	Address
Adams, Judson Jay.....	98	17	Columbus
Alpeter, John Edward.....	98	38+6	Winfield
Alvord, Lewis Upton.....	98	32	Bement, Ill.
Aten, Franklin Stewart.....	98	93+5	Nevada
Barker, Asbury Fletcher.....	98	74	New Lexington
Bowsher, Harry Dittmar.....	98	43	Brickland
Brown, Isaac Sumner.....	98	38	Bethel
Davis, Vernon Hayes.....	98	86+5	Byesville
Dille, Charles Wallace.....	98	25	Nottingham
Ditto, Theodore Walter.....	98	68	Delphos
Duncan, Donley.....	98	53	Ludlow Falls
Dyer, Harry Spencer.....	98	46	Rainbow
Fippin, Elmer Otterbein.....	98	110	Galloway
Galehouse, David William.....	98	57	Doylestown
Gibson, Herbert R.....	98	38	Camp Chase
Gilmore, Walter Hayes.....	98	17	Millersport
Givens, David Albert.....	98	71+40	McGaw
Glock, Edward Hoover.....	98	15	Columbus
Goddard, Harford Bishop.....	98	60	Dunham
Goodwin, Clare F.....	98	48	Columbia Station
Janton, Alex.....	98	23+15	Columbus
Manville, Herbert Emery.....	98	57+8	Ostrander
Mooney, Charles Napoleon.....	98	95+6	Milan
Moorehead, Robert Henderson.....	98	33+3	Zanesville
McCullough, Clark W.....	98	94	Steubenville
McOwen, James, Jr.....	98	63+6	Ovid
Nidy, Arthur Victor.....	98	12	Greentown
Parsons, John Strong.....	98	68+15	Rootstown
Perry, John Cole.....	98	53	Columbia Station
Postle, Stuart A.....	98	38	Camp Chase
Price, William R.....	98	.....	Mineral Ridge
Reed, Jasper Robert.....	98	10	Yellow Springs
Rubins, Frank.....	98	53	Kenton
Schaeffer, Freelan Wilbert.....	98	43+14	Spanker
Schroeder, Glen Thomas.....	98	61+7	Fredericktown
Scott, Howard T.....	98	47	Fair Haven
Sharp, Edmond Maxwell.....	98	15	Berlin
Stimmel, John Russell Jr.....	98	30	Ruse's
Thompson, Jay.....	98	32+8	Sandusky
Thompson, Frank McColgin.....	98	23	Georgetown
Tyler, Fred J.....	98	63+8	Perry
Uncapher, William H.....	98	69	Marion
Whipple, Charles Mantanion.....	98	51	Medina
Whitehead, Henry H.....	98	44+6	Jersey

DOMESTIC SCIENCE—6

	Debit hours	Credit hours	Address
Beattie, Lena Leota.....	90	55	Zanesville
Beattie, Emma Niles	90	34	Columbus
Brown, Alma Marie.....	90	.....	Columbus
Morley, Ida Mae.....	90	34	Columbus
Riley, Valeria.....	90	43	Washington C. H.
Shriver, Sarah Luella.....	90	36	Manchester

COURSE IN DAIRYING—13

	Address
Brown, Alfred Persons.....	Dillon, Mont.
Cass, Roscoe Faskin.....	Maumee
Covell, Jay Inman.....	Sandusky
Durkee, Roy H	North Eaton
Garity, Benjamin Joseph.....	Mount Vernon
Hawley, Wilbur.....	Pataskala
Hulburt, Harold.....	Seville
Lakin, Arthur	Columbus
Merwine, Edson A.....	
Mowry, Edward Philip	Kimball
McDaniels, Fred Kimbal.....	Oberlin
Phillips, John Christopher.....	Akron
Shumaker, Bertram.....	Le Roy

COLLEGE OF ARTS, PHILOSOPHY AND SCIENCE

RESIDENT GRADUATE STUDENTS—19

Alspach, Rufus Edwin, B. A.	Thornville
(Heidelberg.)	
Clements, Frank Orrville, B. A.	Westerville
(Otterbein.)	
Coddington, Edwin Foster, C. E.	Columbus
(Ohio State University.)	
Coursault, Harliaman, B. A.	Columbus
(Ohio State University.)	
Graves, William Lucius, B. A.	Columbus
(Ohio State University.)	
Harvey, Arlington Corylle, B. Ph.	Zanesville
(Ohio State University.)	
Herrick, Louise, B. A.	Columbus
(Ohio State University.)	
Hughes, Raymond Mollyneaux, B. A.	Oxford
(Miami University.)	
Kersey, William Rufus, B. A.	Columbus
(Earlham College.)	
Kiser, Katherine Daniel, B. A.	Columbus
(Ohio State University.)	
Knopf, Eva, B. Ph.	Columbus
(Ohio State University.)	
Mathers, John Harrison, B. Ph.	Conover
(Ohio State University.)	
Metters, Allen, B. A.	Columbus
(Ohio State University.)	
Milne, Alexandre, B. D.	Columbus
(Yale University.)	
Resler, Edward D., B. A.	Westerville
(Otterbein.)	
Rightmire, George Washington, B. Ph.	Columbus
(Ohio State University.)	
Scott, Daisy Medill, B. A.	Columbus
(Ohio State University.)	
Sprague, Charles Franklin, B. A.	Wapakoneta
(Ohio State University.)	
Van Harlingen, Edward M., B. Sc.	Columbus
(Ohio State University.)	

FOUR YEAR COURSES—337

	Course	Debit hours	Credit hours	Address
*Abbott, Roy A.	Science	126	26	Columbus
Acker, Guy Kenneth.	E. Ph.	128	29	Fayette
Allen, Lucy, B. A.				Columbus
Armstrong, Edna, B. Ph.				Columbus
Atkinson, Cephas.	E. Ph.	126	48	Plain City
Atkinson, George H.	E. Ph.	128	75	Columbus

	Course	Debit hours	Credit hours	Address
*Axline, Tella Maude.....	E. Ph.	126	77	Columbus
Baker, John Ezra, B. A.....				St. Paris
*Ball, George Gaylord.....	†		59	Columbus
Ballou, John Benjamin.....	E. Ph.	128	32	Bowling Green
*Balz, Emilie.....	E. Ph.	128	36	Columbus
Bancroft, Gay.....	Arts	127	100	Columbus
Barber, James Sylvester.....	†		4	Alexandria
Barber, Joseph Wesley.....	†			Alexandria
*Barcus, Eliza.....	Arts	126	18	Columbus
Barlow, Helen M.....	L. Ph.	127	101	Columbus
*Barnet, Clarence Elwood.....	E. Ph.	128	28	New Paris
Beardsley, Orsamus Drake.....	E. Ph.	127	102	Garrettsville
*Beatty, Carroll.....	E. Ph.	128	16	Columbus
Bell, Florence Louise.....	E. Ph.	128	39	Columbus
Bell, Harry Almer.....	†			Bloomingtondale
*Bender, Dora T.....	E. Ph.	128	10	Worthington
*Bevard, Eve Gertrude.....	E. Ph.	128	26	Columbus
*Bevard, Olive Branch.....	E. Ph.	128	26	Columbus
Biggs, Leila D.....	M. L. Ph.	126		Coshocton
Blake, Samuel David.....	Arts	126		Shadesville
Blake, Ora Kate.....	Arts	126	40	Columbus
Blakiston, Anna Houston.....	B. Ph.			Columbus
Bock, Harry W.....	†		63	Canton
*Bodman, Mary Elizabeth.....	L. Ph.	127	97	Bement, Ill.
Bond, Charles Grosvenor.....	†		47	Columbus
Bostwick, Homer Zurmehly.....	Arts	126	24	Columbus
*Boyer, Anna Marie.....	E. Ph.	128	26	Columbus
Brandt, James Herbert.....	Arts	126	60	Greencastle
Brewer, Charles Reed.....	†		8	Bowling Green
*Briggs, Florence Jeane.....	E. Ph.	128	40	Columbus
*Brown, Haywood Gale.....	Arts	126	32	Dayton
Bruggerman, E. A.....	†		23	Hilliards
Bryant, Florence Louise.....	†		6	Columbus
Burkett, Dora Van Buren, B. Ph.....				Thornville
Burr, Harriet Griswold, B. A.....				Worthington
*Butler, William Lawrence.....	E. Ph.	128	9	Wilkes Barre, Pa.
Butterworth, William Hartwell.....	Arts	126	96	Columbus
Canfield, Dorothea Francis.....	L. Ph.	126	52	Columbus
Carlin, Rawson King.....	†			Findlay
Carnes, Junius Brutus.....	E. Ph.	128		Canton
Carr, James Gray, A. B.....				Coshocton
*Clark, Margaret Brown.....	E. Ph.	128	30	Columbus
*Clum, Harry Ernest.....	E. Ph.	127	66	Thornville
*Cockins, Rutherford Hayes.....	E. Ph.	126	75	Columbus
Cole, Arthur Clifford.....	Science	126		Springfield
Cole, Marietta Charlotte, B. Ph.....				Columbus
*Conklin, Cora Emma.....	E. Ph.	128	12	Columbus
*Conley, Wilbur Pierce.....	Arts	126	13	Newark
*Connor, Alice Marie.....	E. Ph.	126	28	Columbus
*Connor, Ellen Josephine.....	E. Ph.	126	34	Columbus
Converse, Walter.....	Arts	127	64	Plain City
Corner, Daisy.....	L. Ph.	127	32	Columbus

*Preparatory work incomplete

†Irregular--not candidate for a degree

	Course	Debit hours	Credit hours	Address
Corner, Florence, B. Ph.....				Columbus
Costigan, Nan.....	L. Ph.	126	29	Columbus
Cotes, Albert Eliphalet, B. Sc.....				Springfield
Coursault, Ida M.....	E. Ph.	126	68	Columbus
Courtright, Loring.....	Arts	126	38	Circleville
*Craig, Frederick Gregg.....	E. Ph.	128	64	Cambridge
Cratty, John Mason, B. Sc.....				Bellaire
*Crawford, Mary B.....	E. Ph.	128	28	Blaine
*Creamer, Ansel Brooks.....	Science	126	38	Jeffersonville
Cunningham, Charles Gilman.....	E. Ph.	128	64	Fostoria
*Cureton, Benjamin Fletcher.....	Arts	126	26	Columbus
Cureton, Edward Henry.....	Science	126	39	Columbus
*Curran, Bernard Franklin.....	Science	126	36	Corning
Daehler, Edward Jacob.....	E. Ph.	126	66	Portsmouth
Dann, Lois Elmine.....	E. Ph.	128	72	Columbus
Davenport, Adrian E., A. B.....				Columbus
Davis, Ivy Belle.....	†		6	Columbus
Davies, Jennie Centennial, B. Ph.....				Columbus
*DeGolley, Lloyd Parsons.....	Arts	126	21	Mt. Gilead
DeWitt, Francis Hoffman.....	Arts	126		Columbus
DeWitt, Maud Mary.....	Science	126	25	Sandusky
Dice, Jesse.....	†			Akron
*Dickenson, Thomas Herbert.....	E. Ph.	128	73	Columbus
Dieterich, George Craig.....	E. Ph.	128	95	Piketon
*Dill, Augusta Dille.....	E. Ph.	128	32	Columbus
*Doan, Frank Carlton.....	E. Ph.	128	70	Nelsonville
*Dodge, Karl Bertram.....	Arts	127	65	Dodgeville
Doup, Henry Harris.....	†			Democracy
*Dowd, Charles Fuller.....	M. L. Ph.	126	30	Toledo
Dowd, George Kurtz.....	Arts	126	46	Toledo
Dresbach, Melvin, B. Sc.....				Columbus
Drake, Myrta Olelia.....	E. Ph.	128	15	Columbus
Dufour, Alice.....	†		6	Columbus
Dun, Katherine T.....	†		12	Columbus
*Durbin, Samuel Clyde.....	E. Ph.	128	34	McConnellsville
Duvel, Joseph William Tell, B. Sc.....				Wapakoneta
*Eagleson, John Hervey.....	Arts	126	24	Columbus
Eagleson, Joseph Pentecost.....	Arts	126	15	Columbus
Eagleson, Grace, B. Ph.....				Columbus
Edwards, Mary Winifreda, B. A.....				Columbus
Eisenbise, Bertha.....	E. Ph.	128	28	Columbus
*Enlow, Charles Bates.....	E. Ph.	128	23	Bridgeport
Euans, William Weldon.....	E. Ph.	128	23	Columbus
Euans, C. C.....	E. Ph.	128		Columbus
Fay, Mona, B. Ph.....				Ostrander
Feiel, Ida Louise.....	L. Ph.	127	97	Columbus
Fernold, Henry Barker.....	†		12	West N. Brighton, N.Y.
Ferree, James Irwin.....	Science	129	41	Columbus
Fischer, Walter, B. Sc.....				Columbus
Fischer, Robert.....	Science	126	92+32	Columbus
*Fischer, Ida May.....	E. Ph.	128	34	Columbus
Fitterer, John Conrad.....	Science	126	96	Butler

*Preparatory work incomplete

†Irregular—not candidate for degree

	Course	Debit hours	Credit hours	Address
Ford, Ruth L.....	Arts	126	105	Ashtabula
Ford, Stanley Hainer.....	M. L. Ph.	128	102	Columbus
Fox, Ross Garfield.....	E. Ph.	128	18	Columbus
Fullerton, Charles Hayward.....	E. Ph.	128	104	Wheelersburg
Fullmer, Edward L., B. Sc.....				Defiance
Gamper, Hattie.....	M. L. Ph.	126	32	Columbus
Garber, Levi Lucius.....	L. Ph.	126	15	Belleville
Geren, Helen Onata.....	E. Ph.	126	35	Columbus
*Goddard, Edwin Newell.....	E. Ph.	127	57	Ashtabula
*Gottwald, Bertha Clara.....	E. Ph.	128	31	Pottersburg
*Gray, Genevieve.....	E. Ph.	126	106	Columbus
*Green, Edna S.....	†		47	Columbus
Gruen, Frank William.....	†		53	Columbus
Gugle, Marie, B. A.....				Columbus
Guittard, Claude B.....	M. L. Ph.	126	20	New Bedford
Guitteau, William B., B. Ph.....				Toledo
Haig, Mary.....	†			Columbus
Haigler, Charles Edmund.....	Science	128	107	Jeffersonville
Hammond, Bessie Belle, B. Ph.....				Columbus
Harris, Charles Pearl.....	E. Ph.	128	34	West Liberty
Harrop, Herbert B.....	Science	128	102	Columbus
*Hartford, Martha Dudley.....	L. Ph.	126	32	Atlanta, Ga.
Hartsough, William Howard.....	E. Ph.	126	100	Columbus
Harvey, Florence Danford.....	M. L. Ph.	128	105	Opera
*Harward, Arthur Byron.....	Arts	126	15	Columbus
Hastings, Edwin George.....	Science	128	102	Austinburg
*Hazelton, Birdie.....	E. Ph.	126	99	New Straitsville
*Hebble, Ada Mascena.....	M. L. Ph.	126	24	Xenia
Heldmyer, Florence Julia.....	M. L. Ph.	126	29	Elyria
Henderson, Herbert B.....	M. L. Ph.	126	45	Laceyville
*Hendrixson, Alice.....	E. Ph.	128	31	Columbus
*Henry, George Garr.....	†		44	Columbus
Herns, Edith Selma.....	M. L. Ph.	129	96	Portsmouth
Herrmann, Bessie.....	E. Ph.	126	62	Worthington
Hensel, Donald Dean.....	†		4	Eaton
*Heywood, Harry Nelson.....	E. Ph.	128	23	Wapakoneta
Hoffman, Arthur Sullivan, B. A.....				Columbus
Hoffmann, Hattie DeLong.....	E. Ph.	128	23	Columbus
Hogue, Fred Roland.....	Arts	126	60	Ashtabula
Hoover, Fred R.....	E. Ph.	128	58	Quincy
Hough, W. B.....	Science	126	23	
*Houghton, Henry Spencer.....	Arts	126	21	Columbus
Houseman, Ruth, B. Ph.....				Columbus
*Houser, Helen.....	L. Ph.	126	15	Columbus
Howard, Anna Faye.....	Arts	127	51	Columbus
Howard, Homer Curtis.....	Science	128	84	Columbus
Hubbard, Sterling William.....	†		11	Columbus
Huffman, Lillian Stuart.....	L. Ph.	127	61	Columbus
*Huggins, Burch Delaplaine.....	L. Ph.	126	55	Hillsboro
*Hughey, William Renick.....	Arts	126	9	Frankfort
*Hunter, Edith Virginia.....	L. Ph.	126	18	Columbus
*Huston, Frank Arilda.....	Arts	126	7	Columbus

*Preparatory work incomplete
†irregular--not candidate for degree

	Course	Debit hours	Credit hours	Address
Ingram, Imogene, B. Ph				Columbus
*Jaynes, Allan Brown	E. Ph.	128	34	Columbus
Jeffrey, James Fred	Science	129	56	Columbus
Jones, Joshua Henry, Jr.	Arts	127	61	Columbus
*Jones, Richard Thomas	L. Ph.	126	37	Columbus
*Jones, Victor Waite	E. Ph.	128	16	Columbus
Karshner, George Melville	Arts	126	23	Columbus
*Keating, David Thatcher	L. Ph.	127	61	Columbus
Kellerman, Ivy	Arts	126	106	Columbus
Kellerman, Karl Frederick	Science	126	42	Columbus
Kellicott, William Erskine	L. Ph.	127	99	Columbus
Kellison, Edward Lafayette, B. Ph				Quincy
Kendall, Bernard Jacob	L. Ph.	126	32	Covington
*Kimberly, Charles Hubbell	L. Ph.	126	40	North Fairfield
*Kinder, Gordon Donald	L. Ph.	126	22	Ottawa
King, Robert James	Arts	126	65	Zanesville
Kirby, Harriet R.	†		20	Columbus
*Kohl, Clayton Charles	L. Ph.	126	12	Perrysburg
Krumm, Herbert Zettler	L. Ph.	127	102	Columbus
Kugel, Daisy Alice	Science	126	22	Sandusky
Kuhn, Harry Waldo, B. Sc.				Etna
Lane, Quinton R.	E. Ph.	126	94	Canal Winchester.
Lehman, John Wesley	E. Ph.	126	61	Canal Winchester
Lentz, Alice Belle, B. Ph				Lloydsville
*Levison, Harry	E. Ph.	127	64	Leipsic
*Lisle, Charles Howard	E. Ph.	128	27	Pataskala
Lisle, Dallas Gypsi	L. Ph.	127	65	Columbus
Lisle, Leslie Mac	L. Ph.	127	71	Columbus
Lisle, Mabel, B. Ph				Columbus
List, Erma Alice	L. Ph.	126	52	Columbus
Logsdon, Carey Ligouri	L. Ph.	126	50	Columbus
Luse, Clara Esther, B. Ph				Columbus
Luse, Jessie Edna	E. Ph.	126	54	Columbus
Luse, Vera Inez	†		13	Columbus
Lydenberg, Walter B.	Arts	126	105	Dayton
Lynas, Caroline	Arts	127	85	Columbus
Lynas, Charles Edward	Arts	127	98	Columbus
Manecke, Gilbert	†		9	Fostoria
Mann, Wilbur Edwin	L. Ph.	126	68	Morrisville
Martell, Leonard Roland	Arts	127	103	Columbus
Marvin, Edna Belle	E. Ph.	128	26	Columbus
Mays, John Wesley, B. Ph				South Point
Mickey, Blanche Dell	L. Ph.	126	93	Columbus
Miller, Gretchen Pauline	E. Ph.	128	31	Columbus
*Mills, Glendora	L. Ph.	126	24	Marysville
*Mills, Helen	L. Ph.	126	62	Gallipolis
*Montgomery, John R.	†		23	New Lexington
*Mooar, Harry Landis	M. L. Ph.	126	15	Columbus
Moore, Edgar Howard	Science	126	36	Columbus
Moore, Henry Curtis, B. Sc.				Washington, C. H
Moss, Blanche	Arts	126	88	Columbus
*Mundhenk, Herbert C.	E. Ph.	128	52	Brockville

*Preparatory work incomplete

†Irregular—not candidate for degree

	Course	Debit hours	Credit hours	Address
*Mundhenk, Ruth.....	Science	128	73	Dayton
Munshower, Mabel Edna.....	†		24	Columbus
Munson, Theodore Schwabe.....	Science	128	104	Zanesville
Murdock, George Washington.....	E. Ph.	126	60	Carroll
*Myers, Frederick Loving	E. Ph.	128	4	Columbus
*McCallum, Raymond	Science	126	24	Dayton
McCarter, Flora, B. A.....				Columbus
McKelvey, Ralph Huntington.....	Arts	126	18	Sandusky
McLaughlin, Annis, B. Ph.....				Columbus
*McLaughlin, Ella	E. Ph.	128	13	West Jefferson
Nichol, Gertrude Belle.....	E. Ph.	126	76	Columbus
*Nobles, Jeannette.....	E. Ph.	126	76	Middleport
Nutt, Arthur Chase, B. Ph.....				Worcester, Mass.
Ohlemacher, Dorothea K.....	Science	126	19	Sandusky
O'Kane, Walter Collins, B. A.....				Columbus
Orton, Clara Gregory, B. Ph.....				Columbus
*Osborn, Abner Andrews.....	Science	126	26	Columbus
*Osburn, Raymond Carroll.....	Science	128	89	Columbus
Parker, John Bernard.....	Arts	126	91	Danville
Parmenter, William Watt	Arts	126	32	Mt. Vernon
Perse, Edward M	†			Oak Harbor
Phelps, Archer Lee	†		6	Warren
Phipps, Edith Doris	†			Elyria
Pitts, Grace Lenore.....	L. Ph.	126	26	Columbus
Porter, Mary Baxter, B. Ph				Columbus
*Porter, Albert Abner.....	L. Ph.	127	60	McConnelsville
Postlewait, Neal	†		12	Valier
Powell, Helen Rich.....	M. L. Ph.	126	62	Columbus
Powell, Maria Elizabeth	Arts	126	72	Columbus
Prall, Anna Dickson.....	Arts	126	93	Columbus
Pryor, Charles Foster.....	†		40	Hendrysburg
*Pulling, Margaret Glaze	L. Ph.	126	18	Columbus
Pumphrey, J. Homer.....	Science	128	94	Clayton
Putnam, Abby Slocomb, B. Ph.....				Columbus
Rasor, Samuel Eugene.....	Science	128	88	Clayton
Raymond, Maude.....	E. Ph.	126	94	Columbus
Redick, Mary Glisson.....	L. Ph.	126	98	Findlay
Redrow, Walter Leffingwell.....	Science	126	38	Williamsburg
*Reeb, Margaret Katherine	E. Ph.	128	27	Columbus
Reeves, Claude J.....	Arts	127	64	Columbus
Reeves, Maude Estelle.....	Science	129	60	Columbus
Rice, Mabel Elise.....	Arts	126	91	Columbus
Rice, Mary Washington.....	Arts	126	68	Columbus
Rice, Susan Esther.....	Arts	126	63	Columbus
Richardson, William Waddle.....	L. Ph.	127	65	Columbus
Richey, Luzerne A., B. Ph.....				Boulder, Col.
*Rickey, Tallmadge Archer	E. Ph.	128	28	Columbus
Riddle, Lumina Cotton, B. Sc.....				Columbus
Rietz, Henry Lewis.....	Science	126	70	Gilmore
*Rife, Fannie B	L. Ph.	126	38	Columbus
*Roach, Simeon Andrew.....	L. Ph.	126	76	Chillicothe
Robbins, George A.....	E. Ph.	126	61	Columbus

*Preparatory work incomplete

†Irregular—not candidate for degree

	Course	Debit hours	Credit hours	Address
*Robinson, Charlotte	L. Ph.	126	8	Columbus
*Rockwell, Mary Fannie	E. Ph.	126	76	Columbus
*Rpebuck, Carl Fletcher	E. Ph.	128	26	Dalton
*Rogers, Frank P.	Arts	126	74	Columbus
Sayre, Charles Boyd	Arts	126	26	Columbus
*Schaff, Mae B.	L. Ph.	126	18	Columbus
Schlesinger, Hugo Nathan.	†		34	Xenia
Schwier, Minona, B. A.				Columbus
*Scott, Dudley	E. Ph.	128	26	Columbus
*Scott, Walter Abner	Science	126	34	Fair Haven
Seeds, William Henry	†			Columbus
Seymour, Raymond Jesse	Science	126	38	Columbus
Shank, Robert J.	†		6	Hamilton
*Sharkey, Clare Griesmer	L. Ph.	126	13	Eaton
Shield, Wallace Bates	Arts	127	95	Kansas City
Shuck, Carey Lucas	E. Ph.	126	89	Vanlue
Shurtz, Olive	E. Ph.	126	97	Columbus
Singleton, Charles	E. Ph.	128	16	Columbus
Slaughter, Nellie Elizabeth	†		36	Columbus
*Smith, Virginia Roletta	E. Ph.	128	34	Columbus
Smith, Alice May, B. Ph.				Columbus
Smythe, M. B.	†		9	Columbus
Snow, Walter Austin, B. Ph.				Austinburg
Spencer, Ralph Oliver	Arts	126	65	Columbus
Steeb, Carl E.	E. Ph.	126	66	Medina
*Stimson, Charles Leslie	Arts	127	65	Columbus
*Stimson, George	Arts	126	24	Columbus
Stritmatter, Albert	Arts	126	26	Columbus
Sutherland, Margaret	L. Ph.	126	112	Columbus
*Sylvester, John E.	E. Ph.	126	95	McArthur
Talbot, Herbert S.	E. Ph.	126	106	Columbus
Taylor, Pearl Valeria, B. A.				Columbus
Tessier, Effie Helen	†		31	Sandusky
Teter, Sumner	Science	126	22	Columbus
*Thomas, Lawrence David	L. Ph.	126	24	Lancaster
Thomas, Katie	†		41	Lilly Chapel
Titus, Clarence Hugh	†		40	Avon Lake
Turner, Frederick Lewis, B. A.				Columbus
*Turner, Ralph Tshudy	E. Ph.	128	23	Bridgeport
Twiss, Marion Evans, B. A.				Columbus
Uncles, Margaret Anna, B. A.				Columbus
Underwood, Ella	Arts	126	96	Columbus
Vance, Mary Grace	Arts	127	105	Columbus
*Van Ness, Nellie Rebecca	E. Ph.	127	51	Mechanicsburg
Vornholt, Julius Franklin	Arts	126	98	New Bremen
Walsh, Nettie, B. A.				Columbus
Waltermire, William M.	†		48	Columbus
Waltimire, George C.	E. Ph.	126	103	Deshler
Warden, Hosea Gilford	E. Ph.	126	48	Columbus
Watson, Edward Thompson, B. Sc.				Chillicothe
Webber, Karl T.	†		20	Columbus
*Weick, Carrie Rosina.	Science	126	34	Columbus

*Preparatory work incomplete

†Irregular—not candidate for degree

	Course	Debit hours	Credit hours	Address
*Weld, Harry Porter.....	Arts	126	28	Marysville
*Wertz, Edward Sleaser.....	E. Ph.	128	63	Dalton
West, Richard Sedgewick.....	†		22	Columbus
*West, Earle Downs.....	Arts	126	32	Columbus
Westervelt, Alanson P.....	Arts	126		Columbus
*Whetsel, Ada Charity.....	E. Ph.	128	18	Columbus
Whetsel, Dora.....	†		6	Columbus
*Whetsel, Grace Nellie.....	E. Ph.	128	18	Columbus
Wiggins, Sherman Tecumseh, B. Ph.....				Columbus
*Williams, Anna Ernestine....	E. Ph.	126	64	Jackson
*Williams, Mary E.....	M. L. Ph.	127	66	Columbus
Williams, Olive.....	Arts	126		Worthington
Williamson, Edward Bruce.....	Science	128	111	Bluffton
Wright, Burr Roscoe, B. Ph.....				Peebles
*Wright, M. James.....	Arts	126	37	Worthington
Yockey, Paul Beilharz, B. A.....				Columbus
Yost, Alma.....	†		12	Columbus
*Young, John Wesley.....	L. Ph.	126	70	Columbus
Young, Mary Grace.....	M. L. Ph.	126	34	Mt. Vernon

*Preparatory work incomplete
†Irregular—not candidate for degree

COURSE PREPARATORY TO LAW AND TO JOURNALISM—32

	Debit hours	Credit hours	Address
*Aldrich, Daisy Pearl.....	68	12	North Columbus
*Anderson, Robert Titus.....	68	25	Greenville
Armentrout, Lyman Vance.....	68	8+	Mt. Vernon
Armstrong, Russel Livingston..	68		Celina
*Arnold, Harry Crumley.....	68	8	Columbus
*Berg, Rebecca E.....	68	13	Clifton
*Bradford, William Shubrick.....	68	31	Columbus
Brumbaugh, Robert Nevin.....	68	31	Dayton
*Burnet, Whittier.....	68	34	Waynesville
*Creamer, Fred Byron.....	68	19	Washington C. H.
Date, James Vivian.....	68		Berea
*Du Bois, Aaron Smock..	68	6	Franklin
Hardy, Paul.....	68		Columbus
Harshbarger, Dewey Harlan.....	68	32	Jackson
*Hatcher, Albert Lawrence.....	68	24	Kingston
*Hemley, Dudley Custer.....	68	15	Toledo
Lawler, Edward Fenton.....	68	31	Carrollton
*Leonard, Wellington Taylor.....	68	17+	Mansfield
*Metzgar, Jeremiah Herman.....	68	32	Oak Harbor
*Minshall, Thaddeus Ellis.....	68	22	Chillicothe
*Neiswender, George Hugh.....	68	32+	Grove City
Nicholas, William Renfrew.....	68		Columbus
Pritchard, Howard Dallas.....	68	34	Lisbon
*Romick, Elsie Crum.....	68	33+	Hillsboro
*Sharp, Stephen Albert.....	68	16	Lowell
*Skiles, Roscoe Carleton.....	68	22	Shelby
*Skiles, Zanta.....	68	12	Shelby
Sollars, Harvey K.....	68		
Sullivan, Clarence.....	68		Columbus
*Thrall, Mary Josefa.....	68	22	Carey
*Tyler, Julius Harlow.....	68	18	Columbus
*Westwater, James Gulick.....	68	18+	Columbus

*Preparatory work incomplete

COURSE PREPARATORY TO THE STUDY OF MEDICINE—15

	Debit Hours	Credit Hours	Address
*Anderson, John Milton.....	101	28	Greenville
Aughenbaugh, Charles Ross.....	101	39	Ashtabula
Baldwin, Hugh Allen.....	101	66	Columbus
Crecelius, Edward W.....	101	36	Milan
*Dollison, Harvey Clinton.....	101	34+	Zanesville
Faeth, Victor Peter.....	101	34	Bucyrus
Halderman, Henri Gorath.....	101	44	Portsmouth
Hill, Walter Centennial.....	101	79+	Berlin Heights
Lindsay, John Fergus.....	101	58	Salineville
Micklethwait, William Dever.....	101	77	Portsmouth
McDonald, Daniel Moore.....	101	42+	Wellsville
*Robertson, Howard Elbert.....	101	17	West Elkton
*Rodebaugh, George Kinsman.....	101	5	Marysville
Whaley, Earle Everett.....	101		Osborne
Williams, Horton.....	101	47	Worthington

COLLEGE OF ENGINEERING

RESIDENT GRADUATE STUDENTS—5

	Address
Bassell, John Young, Jr., B. Sc., E. M.....	Columbus (Lehigh University)
Biebel, Herman Mathews, M. E.....	Columbus (Ohio State University)
Fritchle, Oliver Parker, B. Sc.....	Mt. Hope (Ohio State University)
McGrew, John Alexander, C. E.....	Columbus (Ohio State University)
Spurrer, John Rudolf, E. E.....	Chester Hill (Ohio State University)

FOUR YEAR COURSES—254

Course	Debit Hours	Credit Hours	Address
Aldrich, Edgar Sidney, E. F.....			Columbus
Algeo, Thomas Benjamin..... M. E.	216	58	Pataskala
*Armstrong, Herman Clifford..... E. E.	213		Lisbon
Arnold, Edwin Ebert..... M. E.	220	166	Zanesville
Auld, James Albert, E. E.....			Columbus
Auld, Frederick Howard..... E. E.	213	32	Columbus
Barcus, Miner, E. E.....			Columbus
*Barlow, Moses Henry..... C. E.	207	104	Columbus
Barnaby, Charles L..... C. E.	215	159	Columbus
Barr George Franklin..... E. M.	209		Ingersoll, Ont.
Barrie, James White..... C. E.	207	117+9	Ashland
Barringer, Lawrence Eugene..... Ceramics	207	57	Washington, D. C.
Barrows, Harry Holbrook..... C. E.	215	164	Columbus

*Preparatory work incomplete

	Course	Debit hours	Credit hours	Address
*Bartow, Charles Howard.....	C. E.	209	2	Columbus
Bettle, Webb.....	C. E.	207	104	New Richmond
Bishoff, John Wallace.....	E. M.	203	81+11	Elk Garden, W. Va.
Blake, John Tower.....	C. E.	209	53	Canton
Blose, Miller L.....	E. E.	216	102	Urbana
*Bowden, Harry William.....	C. E.	207	99	Minerva
*Bowditch, John Henry.....	C. E.	209	53	Tracy
Bower, Jerome Gordon, M. E.....				Waynesburg, Pa.
Branum, Frank C.....	E. E.	213	25	Bridgeport
*Braun, John William.....	C. E.	215	104+2	Columbus
Brophy, James Francis.....	E. M.	209	105	Elk Garden, W. Va.
Brown, Ernest Edwards.....	E. E.	213	49	Columbus
Brown, John Quincy.....	M. E.	221	176	Ironton
Brown, Wallace S.....	M. E.	220	10	Poland
Bryant, Berney C.....	E. M.	209	5	Cambridge
Bryant, Phillip Earnest.....	E. E.	220	123	South Haven, Mich.
Buchenberg, Alvin Earnest.....	E. E.	216	96	Holgate
Buckman, Arthur Leslie, E. F.....				Norwalk
Butcher, Frederick Eric.....	E. E.	216	64	Buckland
*Butterworth, Robert Burns.....	E. E.	213	51	Columbus
Bygate, Harry Goldsmith.....	M. E.	216	108	Steubenville
*Cassell, Edwin E.....	C. E.	209	13	Fredericktown
*Cavanaugh, Andrew Francis.....	M. E.	220	54	Dayton
Chandler, Henry Stanley.....	E. E.	222	202	Bellaire
Chappell, Walter Evans.....	E. E.	220	164	Barnesville *
Clark, Clarence Julian.....	C. E.	207	91+16	Wilberforce
Claypool, Albert.....	M. E.	221	135	Columbus
Clegg, Richard Lincoln.....	E. E.	213	32	Peoria
Cline, Walter Dew.....	C. E.	207	41	Dayton
*Colgan, Frank J.....	E. E.	220	38	Columbus
*Connolley, Fred Davis.....	E. E.	220	68+9	Columbus
*Cooke, Royal Alston.....	E. E.	213	35+2	Wyoming
Cool, Henry Rose.....	M. E.	219	98+17	Urbana
Cope, Arthur Nathan, E. E.....				Kingston
*Copeland, Martin V.....	M. E.	219	16	Columbus
Crable, Arthur.....	C. E.	209	40	Columbus
*Crumley, Cloise Hamilton.....	E. E.	213	28	Lancaster
Curtis, Leigh Goodrich.....	C. E.	207	104	Hamilton
Damon, Owen H.....	C. E.	207	99+1	Hinckley
Damron, Carson Wiley, M. E.....				Gallipolis
Davis, Oscar Allen, E. E.....				Alliance
*Dean, Edgar W.....	E. E.	213	29+2	New Lexington
Debes, Victor Albert.....	E. M.	209	38	Mt. Vernon
DeWitt, Claude Bennett.....	E. E.	216	58	Sandusky
Donham, Albert.....	M. E.	219	108	Lindale
Drummond, William George.....	M. E.	219	102	Cleveland
Duke, Carl Lewis.....	E. E.	216	99+6	Ridgeville
Dunlop, Robert Rowse.....	E. E.	213	51	Columbus
Dunnick, Edward, C. E.....				Columbus
Elliott, Homer Philander.....	E. E.	216	63	Columbus
Engensperger, Albert.....	M. E.	220	49	Springfield
Enos, Earl E.....	C. E.	215	145	Defiance

*Preparatory work incomplete

	Course	Debit hours	Credit hours	Address
Erdmann, William	Ind. Arts	202	89	Chillicothe
Estep, Frank Leslie.....	E. E.	220	169+4	Jeffersonville
Evans, Roy Newell.....	E. E.	216	70	Greenville
Fergus, Guy Carleton.....	E. E.	220	164+4	Tadmor
Fickes, Walter M.....	Ceramics	207	53	Steubenville
Fish, Fred A.....	E. E.	220	162+2	Milan
*Fisher, Fred.....	C. E.	209	4	Belleville
Flynn, Benjamin Harrison.....	C. E.	215	164	Columbus
Foster, William M.....	Ind. Arts	202		Mobile, Ala.
Fox, John Herbert, M. E.....				Lucas
*Francis, Frank D.....	E. E.	213	13	Columbus
Frankenberg, John Theodore.....	E. E.	216	106+5	Columbus
Freeman, George Doane	E. E.	220	152	Columbus
Freeman, Stanton Sholes	E. M.	212	159+0	Columbus
*French, Edward Houston.....	E. M.	212	80	Columbus
Frost, George Winfield.....	M. E.	219	76	Columbus
Gallen, William Francis, M. E.....				Columbus
*Gamper, Herman.....	M. E.	220	111	Columbus
*Ganson, Edwin R.....	E. E.	220	69+2	Columbus
Garber, John Murray, C. E.....				Belleville
Gardner, Royal Gordon.....	†		14	Worthington
*Gates, William Paul	Ceramics	207	46	Hinsdale, Ill.
Gee, Eugene Charles, E. E.....				Wheeling, W. Va.
Geren, Harry Ogden.....	E. E.	220	137+2	Columbus
Gerwig, Harvey D.....	E. E.	213	17	Hartwell
Gleason, John Marshall	M. E.	220	54	Columbus
Goodell, Frank Herbert.....	E. M.	212	84	Columbus
Gottwald, Christian.....	E. E.	213	51	Defiance
Graham, Emery Eugene	E. E.	220	166	Richwood
Grate, Charles A.....	M. E.	220	144+10	Yale
*Green, Joseph Walter	E. E.	216	102	Dayton
Green, Homer Stuart	E. E.	213	40	Raymond
Griffin, Mark Harris, E. E.....				Toledo
Groves, John Wesley.....	C. E.	215	164	Batavia
Hale, Frederick James	M. E.	221	168+8	Mogadore
Haly, William Stokes	C. E.	207	65	Napoleon
Harkins, Robert Rusk	E. E.	213	51	Columbus
Harshbarger, Elmer	E. E.	216	62+7	Jackson
Hartley, Lowrie C.....	†		34	Uniontown
Hartwick, Louis Martin, M. E.....				Marietta
Harward, Alvin Devins.....	E. E.	220	111	Gahanna
*Haseltine, Carrie Montgomery	C. E.	209	6+6	Columbus
*Haushalter, Fred G.....	M. E.	220	10	Akron
Hawkins, Harry Clyde.....	E. E.	220	163+3	Lima
Hayes, Robert Lee.....	E. E.	220	149	Columbus
Hayman, William Clayton.....	E. E.	216	78	Holgate
Henderson, Adelbert A	C. E.	215	123	Olentangy
Henry, Carlton	E. E.	216	102	London
Hertner, John Henry	E. E.	216	111+11	Dayton
Hewitt, Stafford Reeves.....	E. E.	220	161	Columbus
High, Carroll Williams.....	C. E.	215	103+17	Columbus
Hildt, John Edward.....	E. M.	209	153+22	Canal Dover

*Preparatory work incomplete

†Irregular—not candidate for degree

	Course	Debit hours	Credit hours	Address
Hipple, John Merton	E. E.	220	165	Jefferson
Hirsch, Gustav, E. E.				Columbus
Hopkins, Roy James	E. E.	216	66	Mechanicsburg
*Howard, Oscar David	E. E.	213	51	Circleville
Howell, Carl Eugene	†		80	Columbus
Howells, Thomas Jonathan, E. M.				Martin's Ferry
Hubbard, Samuel H.	E. E.	213		Wheeling, W. Va.
Hunter, Madone Carington	E. E.	213	51+3	Norwich
Huntington, Arthur	M. E.	221	80	South Charleston
Irvin, Chadwick Humphreys, M. E.				Columbus
Jefferey, John Ralston	C. E.	207	41+6	Huron
Jennings, Levi E. E.				Eaton
Johnson, Earl S.	E. E.	213	100	Plants
Jones, Arthur James	E. E.	220	165+8	Fitz Henry, Pa.
*Jones, Herbert Q.	E. E.	213	44+1	Columbus
Judd, Horace, M. E.				S. Hadley Falls, Mass
Kah, William Arthur	E. M.	209		Sidney
Kasley, Alexander Taylor	E. E.	216	111+15	Wheeling, W. Va.
Kilbourne, Lincoln	M. E.	220		Columbus
Kirkpatrick, Williams Burns	E. E.	222	202+8	New Holland
Kline, Charles Henry, E. E.				Dayton
Knauss, Rannells Walton	E. E.	220	75	Columbus
*Knecht, Arthur E.	M. E.	221	159+2	Cincinnati
Knouff, Oliver M.	C. E.	209	36	Caldwell
Knox, Frank S.	E. M.	203	87	Columbus
Krumm, Louis R.	E. E.	220	156	Columbus
Krumm, Raymond	C. E.	215	196	Columbus
Lamb, Whitney Earl	E. E.	216	89	Commercial Point
Lee, Robert Miller, M. E.				Columbus
Lee, Corliss Edgar	E. E.	216	107	Pugh Postoffice
Lesh, John Howard	M. E.	220	45	Louisville
Linebaugh, Jesse Joseph	E. E.	216	111	Pleasant Corners
*Lisle, Eli Mace	C. E.	215	197+10	Columbus
Loeb, Arthur Emanuel	E. E.	220	105+ 4	Columbus
Loos, Charles Louis, Jr.	M. E.	219	72	Dayton
Lyon, Arthur Hollingshead	M. E.	220	54	Wauseon
*Madden, Ernest	Ind. Arts	202	43	Columbus
Marsh, Aura Coleman	E. E.	213	13	Columbus
Marshall, Willard Beverley	E. E.	213	90	Piqua
Martin, George, E. E.				Fredericksburg
Martin, John D., Jr.	M. E.	220	54	New Straitsville
Mason, Charles Filmore	E. E.	216	40	Columbus
*Melick, Neal Albert	C. E.	209	53	Columbus
*Miller, Harry	M. E.	220	4	Columbus
Minkler, William Grant	C. E.	215	134+13	Fremont
*Mock, Francis Leroy	E. E.	213	44+ 6	Columbus
Morris, Clyde T.	C. E.	215	165+12	Columbus
Myers, Albert	E. M.	209	63	Columbus
*McBean, John G.	E. M.	209		Cadiz
*McCabe, Hugh Auguste	M. E.	220	27	Columbus
McIntosh, Thomas A.	E. M.	209		Calcutta
McIntire, Alfred Heber	E. E.	220	127	Mt. Vernon

*Preparatory work incomplete
† Irregular—not candidate for degree

	Course	Debit hours	Credit hours	Address
McKee, Stanley Hayes.....	C. E.	207	96	Warren
Needham, Harry Smithson.....	M. E.	220	50+12	Columbus
Nichols, John Laurence Darvall ...	E. M.	212	74+39	Columbus
Nichols, Frank Butler.....	C. E.	215	205	Wyoming
Nicholson, Charles Marion.....	E. E.	213	46	Columbus
Nidy, Herbert C.....	E. E.	213	51	Greentown
Nold, John H.....	E. E.	213	51	Columbiana
Norton, Victor Clarence.....	C. E.	207	111	Southington
Nurian, Kerson.....	E. E.	216	99	Bulgaria
Ogbin, Clinton Vanneman.....	†		28	Salem, N. J.
Oldham, Jay Lester.....	E. E.	213	53+4	Springfield
Pabodie, Robert J.....	M. E.	221	135+3	Wyoming
Peck, Louis Tucker.....	M. E.	220	64+3	Staunton, Va.
Peters, Arthur Edward.....	M. E.	220	153+14	Toledo
Phillips, William Merrian.....	E. E.	216	78	Columbus
*Pollock, James Author.....	E. E.	213	51+3	Fancher
Porter, Edward Earl.....	M. E.	220		Columbus
*Powell, Leslie Boyle.....	E. E.	213	49	Columbus
Pratt, Fred Kellogg.....	C. E.	209	55	New Philadelphia
*Prettyman, William Norman.....	C. E.	209	2	London
Ralston, William.....	†		93	Newman
Rawson, Levi.....	C. E.	215	120+12	Lisbon
Reed, John Wesley.....	E. E.	222	182	Columbus
Reed, William Alden, E. M.....				Lowellville
Reedy, Mrs. Clifton.....	†		24	Columbus
Rice, Herbert A., C. E.....				Columbus
Richt, Fred Herman.....	C. E.	215	124+13	Cincinnati
Riddle, Carlton.....	M. E.	220	146+16	Milford Center
Riddle, Howard Sterling, E. E.....				Columbus
Robb, Daniel Lockwood.....	M. E.	220	85	Loveland
Roberts, William Clyde.....	C. E.	215	54+13	Galena
Roberts, Cyrus Swan, Jr.....	E. M.	212	159	Columbus
*Ross, Frank George.....	E. E.	213	4	Bucyrus
Rowlee, Henry Allison M. E.....				Lorain
*Roy, Robert Daugherty.....	C. E.	215	101+15	Glenroy
*Roy, Charles Foster.....	E. M.	209	33+13	Glenroy
Roy, William Allen.....	E. M.	209	22+30	Glenroy
Ruhlen, Carl Marble.....	M. E.	221	163+ 4	Columbus
*Ryland, Paul Dillen.....	C. E.	209	38+2	Columbus
Saxbe, Harry Moody.....	E. E.	213	31	Urbana
Schaup, Charles E., E. M.....				Tiffin
*Schreiber, George Ernest ..	E. E.	213	51	Ironton
Schreiber, John Martin.....	E. E.	220	161	Ironton
Seeds, Karl Beaver.....	Ind. Arts	202	40	Columbus
*Sharp, J. R.....	E. M.	209	75	Columbus
Sharp, Thomas, Jr.....	C. E.	209		Columbus
Sharts, Stanley Rush.....	C. E.	215	128+19	Dayton
*Shepherd, Charles William.....	C. E.	209	53	Huron
Sherwood, Milton Worthington ...	M. E.	220	35	Hilliards
Shields, Samuel Mathers.....	C. E.	207	84+ 5	Steubenville
Simpson, Henry Jerome.....	C. E.	209	4	Worthington
Smiley, Emory Elden.....	†		64	Wellston

*Preparatory work incomplete

†Irregular—not candidate for degree

	Course	Debit hours	Credit hours	Address
Smith, David William.....	C. E.	209	104	Ashland
*Smith, Thomas Jefferson ..	E. E.	213	41	New Lexington
Snelling, Catherine Armantha	†			Columbus
Snider, Charles Milton, B. Sc. (Ind. Arts)				Columbus
Snider, Earl Quintner.....	E. E.	213	38+ 2	Cerro Gordo, Ill.
Snodgrass, William Howard.....	E. E.	213	36	Marysville
Sprague, Clarence M.....	C. E.	207	104	Summerford
Staley, Marcellus	E. E.	216	109+ 2	Dayton
*Stalter, Edward D	C. E.	207	78	Columbus
Starbuck, Karl	E. E.	216	108	Barnesville
Stauffer, Clinton R	E. E.	213	51	Lima
Stone, Carlton E.....	C. E.	207	104	Gallipolis
Taylor, George	E. E.	213	28	
Theobald, Julius.....	E. E.	222	163	Columbus
Thomas, Charles Townes	E. M.	209	47	Newark
Thomas, James Oscar, C. E.....				Columbus
*Tufts, Charles H.....	C. E.	215	136	Maineville
*Urban, Harry Marshall.....	C. E.	215	165	Ashland
Van Horne, John Chittenden.....	C. E.	215	210+16	Fort Russell, Wy.
Voigt, Frederick.....	E. E.	213	48	Holgate
Vosskuehler, Joseph Henry	M. E.	220	77	Dayton
Wasson, Roi Bingham	E. E.	216	17	Cadiz
Watt, Charles Wilton	M. E.	221	87+ 5	Barnesville
*Weiland, John.....	E. E.	216	34+14	New Lexington
Wentworth, Arthur Milton.....	E. E.	216	108	Hinsdale, Mass.
*Wetzel, Samuel C.....	M. E.	219	47+ 4	Dayton
*Whiley, George Edwin.....	M. E.	220	22	Lancaster
Williams, Fred Richard.....	E. E.	220	116+ 2	Columbus
*Williams, Frank E.....	E. E.	213	12	Columbus
Wilson, James Somerville	M. E.	220	76	Columbus
Wirthwein, Louis P.....	C. E.	207	110	Columbus
Wise, Albert Joseph.....	C. E.	215	162	Suffield
Worcester, Wood Frank.....	E. E.	220	131+ 2	Columbus

COURSE IN ARCHITECTURE—17

	Debit hours	Credit hours	Address
*Fenimore, Edward Compton.....	154	43	Columbus
*Grimm, Arthur Adin Hibbs.....	154	20+33	Columbus
Herrick, Nellie.....	154	86+46	Columbus
*Huddleson, Frank.....	154	37+ 3	Columbus
King, Herbert Sumner.....	154	66+11	Medina
*Lum, Charles Nicholas.....	154	6	Columbus
*Mills, James Dwight.....	154	64+21	Columbus
Norris, George Bertrand.....	154	64+33	Ironton
*Robbins, Frank Smith.....	154	24	Middletown
*Seward, Russell M.	154	13+3	Columbus
Smith, Walter S.....	154		Columbus
Steinle, Charles Frederick.....	154	42+ 2	Fremont
Van Sciever, Carl P.....	154		Columbus
Weick, Louisa Augusta.....	†	20	Columbus
Wight, Frank Ernest.....	154	84+15	Columbus
*Wight, J. Bayard.....	154	51+10	Columbus
Worcester, Wolsey G.....	154	29+40	Columbus

*Preparatory work incomplete

†Irregular—not candidate for degree

SHORT COURSES

CLAY WORKING AND CERAMICS—10

	Debit hours	Credit hours	Address
Adams, John CarroH.....	90	68+23	Lynchburg, Va.
Biglow, Ernest Osborn.....	90	45+18	West View
Bleininger, Albert Victor.....	90	90+ 6	Cleveland
Butler, John Francis.....	90	20	Austin, Texas
Campbell, Augustine Ray.....	90	45	Metuchen, N. J.
DeLong, Archibald Zopher.....	90	80+ 1	Glens Falls, N. Y.
Gerke, Karl Bertram.....	90	45+ 4	Quincy, Ill.
Hensel, Otto.....	90	80	New Ulm, Minn.
Oglesby, Julian Berry.....	90	10	Dalton, Ga.
Purdy, Ross C.....	90	50+25	Buffalo, N. Y.

INDUSTRIAL ARTS—7

	Debit hours	Credit hours	Address
Chandler, Fred.....	96	26	Salem, Va.
Clevenger, Joseph Franklin.....	96	20+ 7	Fletcher
Hosmer, Herman B.....	96		
McOwen, Charles.....	96	11	
Paisley, Charles.....	96	13	Sharon
Rightmire, Robert Elwood.....	96	41+18	Wheelersbus
Smith, E. F.....	96	10	

MINING—12

	Debit hours	Credit hours	Address
Alkins, Albert Edwin.....	91	15	Wayne, Pa.
Anderson, Arthur.....	91	60+7	Shawnee
Davis, Thomas John.....	91	27+7	Girard
Denny, Charles Wamper.....	91	27+7	Middletown
Fravel, John Henry.....	91	45+8	Columbus
Harrigan, Patrick.....	91	40	Darlington, Pa.
Higgy, Michael Francis.....	91	2	Columbus
Johnson, Milton Stevens.....	91	35+9	Middletown
Loveberry, Carl F.....		9	Somerset
Manley, R. M.....	91	14	Garrettsville
Neale, Arthur.....	91	47	Monarch, Pa.
Owen, Clarence B.....	91		Dalton

* COLLEGE OF LAW

JUNIORS—57

	Address
Ball, George Gaylord.....	Columbus
Barber, James Sylvester.....	Alexandria
Barber, Joseph Wesley.....	Alexandria
Barrere, George Nelson.....	Columbus
Bell, James Findlay.....	London
Bell, Harry Almer.....	Bloomington

	Address
Bond, Charles Grosvenor.....	Columbus
Brewer, Claude Leon.....	Columbus
Brewer, Charles Reed.....	Bowling Green
Calendar, Sherman Delevin, B. Ph.....	Hartsgrove
(Oberlin)	
Chute, Elmer Jesse.....	Carbon Hill
Clemons, Alexander Ralph.....	Marblehead
Cline, Walter Dew.....	Dayton
Dille, Charles Wallace.....	Nottingham
Doup, Henry Harris.....	Democracy
Flory, Charles Louis.....	Newark
Game, Reed Haskel, B. Ph.....	Canal Winchester
(Ohio State University)	
Godown, Joseph A.....	Hilliards
Gross, Charles John.....	Dayton
Gruen, Frank William.....	Columbus
Guiteau, William Backus.....	Toledo
Hay, Dwight George.....	Creston
Henry, William Crawford.....	Columbus
Hensel, Donald Dean.....	Eaton
Hulick, Lott.....	Batavia
Harshbarger, Dewey Harlan.....	Jackson
Jahn, Nannie.....	Columbus
Lacey, Emmet.....	Columbus
Mauck, Earl Wayland.....	Cheshire
McKemy, Henry Glenn.....	Dayton
Merrill, Wesley Charles, A. B.....	Granville
(Dennison)	
Milligan, Charles Clinton.....	Gnadenhutten
Minshall, William Edwin.....	Chillicothe
Montgomery, Howard Deane, B. Ph.....	Martin's Ferry
(Ohio State University)	
Moore, Henry Curtis.....	Bainbridge
Orton, Walter Edwin.....	Williamstown, Mass.
Outhwaite, Singleton Peabody, B. A.....	Columbus
(Princeton)	
Pease, Edward Livingston, B. A.....	Columbus
(Ohio State University)	
Porter, Burton Perlee.....	Canal Fulton
Postlewait, Neal, A. B.....	Valier, Pa.
(N. Ind. University)	
Price, Thomas Daniel.....	New Straitsville
Richey, Luzerne A, B. Ph.....	Senecaville
(Ohio State University)	
Saviers, Clara Belle.....	Columbus
Schlesinger, Hugo Nathan.....	Xenia
Southard, Thomas Campbell, A. B.....	Columbus
(Ohio State University)	
Sprague, Charles Franklin, A. B.....	Wapakoneta
(Ohio State University)	
Stough, Luther Bertrand.....	Bellefontaine
Streett, Herman.....	Columbus
Sullivan, Jeremiah Clarence.....	Columbus
Toole, Charles Edward.....	Columbus
Wasson, Roi Bingham.....	Cadiz

	Address
Weidling, Carl Phillip.....	Tiffin
Welsh, Harford Burnette.....	Columbus
West, Richard Sedgwick.....	Rix's Mill
Wildermuth, A. LeRoy.....	Columbus
Weaver, Theodore Alphonse.....	Miamisburg
Worcester, Wood Frank.....	Columbus

MIDDLE YEAR—34

Baker, John Ezra.....	St. Paris
Barr, George Franklin.....	Ingersoll, Ont.
Beem, Chapin Burton.....	Jersey
Bock, Harrison William.....	Canton
Carlin, Rawson King.....	Findlay
Chittenden, Campbell Mithoff.....	Columbus
Crowley, Patrick Andrew.....	Columbus
Dice, Jesse P.....	Akron
Dakin, William Clarence.....	Sabina
Foster, Isaac Moore.....	Athens
Garst, William Augustus.....	Westerville
Green, Thomas Jefferson.....	Shelby
Griffiths, Benjamin L.....	Vaughnsville
Heacock, William Preston.....	Cardington
Johnson, Harry Hughes, B. S.....	Wooster
(University of Pennsylvania)	
Keller, Charles Artemas.....	Kenton
King, Thomas Roscoe.....	Lorain
Krumm, Charles S. M., B.Ph.....	Columbus
(Ohio State University)	
Lanfersick, Winfield Suttcliffe.....	Columbus
Layton, Verne Durand.....	Wapakoneta
Lewis, Thomas Evans.....	Granville
Martin, John Thomas.....	Columbus
Monsarrat, Norton Slaughter.....	Columbus
Mull, Bert LaForrest, B. A.....	Columbus
(Ohio Wesleyan University)	
Morgan, Eugene.....	New Lexington
Nevin, Charles Borland.....	Dayton
Patchin, Rufus Harry, A. B.....	Chardon
(Allegheny College)	
Pryor, Charles Foster.....	Barnesville
Sinks, Frederick Nicholas.....	Columbus
Smith, Edward Trevitt.....	Holden, Mo.
Sternberger, Lamar.....	Jackson
Trump, George Edward.....	Circleville
Unverferth, Bernard Anthony.....	Glandorf
Wilcox, McAllister.....	Sunbury

SENIORS—38

Alger, Abram Wilhelm.....	Wilmot
Barns, George Charles.....	Sabina
Bibbee, George Edgar, A. B.....	Apple Grove
(Ohio Wesleyan University)	
Blake, Joseph Mathias.....	Canton
Bope, George Washington.....	Pleasantville
Boyd, Martin Luther.....	Kinsman

	Address
Brand, Harry Frank, B. Ph.....	Worthington
(Ohio State University)	
Bronson, Hiram Sherman, B. L.....	Columbus
(Cornell University)	
Butler, Delano.....	Adelphi
Ellis, Cicero Earl.....	Columbus
Foster, Frank Henry, B. Ped.....	Sidney
(Iowa Normal)	
Genheimer, William Frederick.....	Wheelersburg
Herbert, Charles Thomas.....	Columbus
Hower, Charles Harris.....	Akron
Huston, Charles H., B. S.....	Mansfield
(Tri-State, Angola, Ind.)	
Jones, Benner, B. S.....	Thurman
(Rio Grande, Ind. Col.)	
Judkins, Clyde Hollingsworth, A. B.....	Cadiz
(Scioto College)	
Layton, Roy Everett, A. B.....	Wapakoneta
(Ohio State University)	
Luce, George Ernest, A. B.....	Columbus
(Ohio Wesleyan University)	
Manecke, Gilbert.....	Fostoria
Marshall, George Sidney, B. Ph.....	Corning
(Ohio State University)	
Miller, George Clement.....	Lancaster
Osborne, Samuel Galloway.....	Columbus
Parsons, Harold Clapp.....	Akron
Perse, Edward McMaster.....	Oak Harbor
Phelps, Archer Lee.....	Warren
Randolph, Edwin Stanton, A. B.....	Somerset
(Ohio Wesleyan University)	
Rule, Ralph R., B. S.....	Greenspring
(Tri-State, Angola, Ind.)	
Sater, Lowry Francis, B. Ph.....	Columbus
(Ohio State University)	
Shank, Robert J.....	Hamilton
Snyder, Walter Steck.....	Allegheny, Pa.
Stevens, Frank Marion.....	Elyria
Webber, Karl Thomas.....	Columbus
Weyant, Theodore.....	Columbus
Weirman, William Charles.....	Port Clinton
Wine, Harvey Curtis.....	Zanesville
Winter, Nevin Otto, A. B.....	Bucyrus
(Ohio Wesleyan University)	
Ziegler, Charles Wallace.....	Canton

SPECIAL—3

Stover, Melvin Haines.....	Sabina
Gardner, Royal Gordon.....	Worthington
Standart, Henry Needham.....	Columbus

COLLEGE OF PHARMACY

THREE YEAR COURSE—11

	Address
Baughman, George Washington, G. Ph.....	Leipsic
Braun, Joseph George, G. Ph.....	Columbus
Cromley, Alvah Miller, G. Ph.....	Ashville
Huddleson, Don Carlos, G. Ph.....	Columbus
Lawrence, Althur Kelton, G. Ph.....	Columbus
Magly, Robert A., G. Ph.....	Columbus
Mebs, George Henry, G. Ph.....	Columbus
Metzgar, Edward Henry, G. Ph.....	Circleville
Smith, Ernest Edwin, G. Ph.....	Wooster
Stump, William Lisle, G. Ph.....	Nashport
Sutphen, James Leonard, G. Ph.....	Columbus

FOUR YEAR COURSE—20

	Debit hours	Credit hours	Address
*Bancroft, Norman Ray.....	206	62	Columbus
Bell, William Roscoe.....	206	97	Columbus
Bowen, Charles Flood.....	206	55	Columbus
Calkins, William Bartlett.....	206	164	Columbus
Canfield, Delos Wilford, Jr.....	206	8	Chardon
Chamberlain, Benjamin Woods.....	206		Columbus
Clemons, Walter Lewis.....	206		Marblehead
*Dunlap, Carl Reed.....	206	21	Columbus
*Easton, John Crockett.....	206	100+46	Springboro
*Graner, Carl.....	206	48	Oak Harbor
Hawley, Charles Spencer.....	†	19	Pataskala
Hoglen, John James.....	206	33	Columbus
Holloway, David Frank.....	206	38	Middletown
Huff, George Harry.....	206	48	Middletown
Karshner, Malcolm.....	206	52	Columbus
*Kerr, Franklin Pierce, Jr.....	206		Columbus
*Koons, Mary Royston.....	206	66	McConnelsville
Nauss, Ralph Wilty.....	†	35	Greenville
Peppel, Samuel Vernon.....	206	68	Leetonia
Schwab, Clyde Albert.....	206	36	Lima
*Smith, Harry Milton.....	206	23	East Liverpool
Wright, Frank Magee.....	206	15	Logan

SHORT COURSE—31

Barrick, Fred Asberry.....	112	58+8	Columbus
Brintlinger, Arthur Harry.....	112	23	
Browning, Mark.....	112	58	Dennison

*Preparatory work incomplete.

†Irregular—not candidate for degree.

	Debit hours	Credit hours	Address
Bukey, Charles	112	58+8	Tracy
Burr, Frank Henry	112	67+10	Columbus
*Clark, Carey Virgil	112	10	Wheat Ridge
Conroy, Thomas John	112	8	Columbus
Culbertson, Claude Lanier	112	58+2	Zanesville
*Guthridge, Charles Everett	112	76+8	Columbus
Hartman, John Metz	112		Lawrenceville
Hyde, Cyrus Olin	112	63+3	Columbus
James, William Morson	112	20	Columbus
Kathe, John Bernard	112	58+8	Circleville
Logsdon, Clement Jay	112	96+14	Columbus
Moore, Rodney Downing	112	58+14	Chardon
Morris, Harry Long	112	58	Springfield
Moss, William	112	96+8	Buffalo
McCann, Frank Hyacinth	112	43	Junction City
Oglesby, Nicholas Perkins	112	58	Lucretia, Va.
Oshe, Carl Magnus	112	38+2	Zanesville
Potter, Lewis Hall	112	48	Columbus
Rogers, Frank Clinton	112	28	Columbus
Schilling, Robert William	112	38	Jewitt
Sharp, Birdseil	112	5	Columbus
*Sherry, Charles William	112	33	Columbus
Smith, Clarence Elmer	112	104	West Brookfield
Somermeir, Edward Everett	112	109+15	Westwood
Sovacool, Harry Grove	112	53	Columbus
Stephens, William Emery	112	48	Barnesville
Sweet, Fred Watson	112	106	Columbus
West, Frederick Rollen	112	15+18	Columbus

COLLEGE OF VETERINARY MEDICINE

RESIDENT GRADUATE STUDENTS—1

	Address
Loveberry, Clarence, D. V. M.	Somerset
(Ohio State University.)	

UNDERGRADUATES—12

	Debit hours	Credit hours	Address
Boyd, James Grant, D. V. M.			Columbus
Brumley, Oscar Velas	196	170	Townwood
Canfield, Charles Horace, D. V. M.			Akron
Detchon, Aubrey Bloxom	196	50	Youngstown
Emerick, David Artic	196	170	West Milton
Miller, Henry Paul, D. V. M.			Sunbury
Morgan, F. Harry	196	16	Cumberland
Myers, Murray	196	165	Lewisville
Smith, William Morgan	196	153	Basil
Sparhawk, William Theron	196	60	Tallmadge
Stevens, Jacob Franklin	196	162	Northville
Worcester, Warner ..	196	151	Columbus

SUMMER SCHOOL--72

1896

	Address
Angell, Mrs. Margaret	Columbus
Armstrong, Russell Livingston.....	Celina
Beekman, Minnie.....	Columbus
Blachley, Helen.....	Columbus
Bowden, H. H., Jr	Granville
Bower, Jerome B.....	Waynesburg
Bratton, Alice.....	Columbus
Brugger, Harry.....	Clyde
Butterworth, Irwin.....	Columbus
Claypoole, Albert.....	Columbus
Coates, Thomas Charles.....	Lancaster
Cronebach, C. L.....	New Philadelphia
Drake, M. Olelia.....	Malta
Dickinson, Thomas H	Columbus
Dresbach, Melvin.....	Columbus
Dunlap, A. B	Menaska, Wis
Elliot, Homer P.....	Columbus
Flynn, Benjamin Harrison	Columbus
Fox, John H.....	Lucas
Fraser, Charles A.....	Wellsville
French, Edward Houstin.....	Columbus
Garner, Edna Katherine.....	Columbus
Gilmore, William.....	Millersport
Goodell, Alice.....	Columbus
Goodell, Frank Herbert	Columbus
Groves, John W	Batavia
Hastings, Oscar Brown.....	Columbus
Hendrixson, Alice.....	Columbus
Hoffman, Hattie DeLong.....	Columbus
Howells, Thomas Jonathan.....	Martin's Ferry
Hunter, Mary E.....	Columbus
Huntington, Arthur	South Charleston
Huston, Amanda	Columbus
Jacoby, Ethelwyn	Columbus
Jacoby, Mrs. Sarah C.....	Columbus
Jaynes, Allan B.....	Columbus
Kaiser, Clara.....	Columbus
Lambert, J. I	Dayton
Lisle, E. E.	Columbus
Lum, Charles Nicholas.....	Columbus
Lybarger, U. S.....	Gambier
Mays, James Wesley.....	Columbus
McAllister, Earl S	Columbus
McClelland, Jessie.	Columbus

	Address
Merriman, Nellie B.....	Gallipolis
Micklethwait, William D.....	Portsmouth
Moore, Maud.....	Columbus
Morris, Clyde T.....	Columbus
Myers, Frederic Loving.....	Columbus
Nurian, Kerson.....	Bulgaria
Obetz, Francis Herbert.....	Columbus
Oldham, J. L.....	Springfield
Orton, Samuel Toney.....	Columbus
Osborn, Abner Andrews.....	Columbus
Phelps, Harvey H.....	Lexington
Pumphrey, J. Homer.....	Clayton
Rasor, Samuel Eugene.....	Clayton
Reynolds, Carl.....	Columbus
Scott, Cyrus E.....	Columbus
Scott, Ernest.....	Columbus
Secrest, Stella.....	Chillicothe
Shellabarger, Marley R.....	Garland
Smith, Alice May.....	Columbus
Starrett, Amy Blue.....	Columbus
Stauffer, Clinton R.....	Lima
Stilwell, S. A.....	Waynesville
Twiss, Marion.....	Columbus
Vosskuehler, Joseph Henry.....	Dayton
Wagoner, Stanley P.....	Columbus
Watt, Charles W.....	Barnesville
Wood, Lillian J.....	Columbus
Wilson, James Somerville.....	Columbus

GENERAL SUMMARY.

RESIDENT GRADUATE STUDENTS—

College of Arts, Philosophy and Science.....	19	
College of Engineering.....	5	
College of Veterinary Medicine.....	1	25

UNDERGRADUATES—

Four-year Courses.

College of Agriculture and Domestic Science.....	34	
College of Arts, Philosophy and Science.....	337	
College of Engineering.....	254	
College of Law.....	132	
College of Pharmacy.....	31	
College of Veterinary Medicine.....	12	800
Short Courses and Special Courses.....		187
Summer School.....		72
Total.....		1,084
Names counted twice.....		65
Net total*.....		1,019

*In addition, Professor Gordy gave systematic class instruction through the year to thirty-three Columbus teachers; regularly matriculated in the University, though meeting in the city.

SUMMARY BY COUNTIES

Adams.....	3	Greene.....	5	Montgomery.....	24
Allen.....	3	Guernsey.....	6	Morgan.....	5
Ashland.....	3	Hamilton.....	7	Morrow.....	3
Ashtabula.....	10	Hancock.....	3	Muskingum.....	12
Athens.....	3	Hardin.....	2	Noble.....	1
Auglaize.....	9	Harrison.....	5	Ottawa.....	6
Belmont.....	17	Henry.....	5	Perry.....	21
Brown.....	1	Highland.....	1	Pickaway.....	8
Butler.....	9	Hocking.....	2	Pike.....	1
Carroll.....	2	Holmes.....	3	Portage.....	6
Champaign.....	8	Huron.....	3	Preble.....	6
Clark.....	8	Jackson.....	8	Putnam.....	7
Clermont.....	7	Jefferson.....	8	Richland.....	12
Clinton.....	5	Knox.....	11	Ross.....	10
Columbiana.....	10	Lake.....	1	Sandusky.....	3
Coshocton.....	2	Lawrence.....	5	Scioto.....	9
Crawford.....	3	Licking.....	18	Seneca.....	5
Cuyahoga.....	5	Logan.....	4	Shelby.....	2
Darke.....	4	Lorain.....	11	Stark.....	14
Defiance.....	3	Lucas.....	8	Summit.....	6
Delaware.....	7	Madison.....	8	Trumbull.....	7
Erie.....	16	Mahoning.....	4	Tuscarawas.....	11
Fairfield.....	13	Marion.....	1	Union.....	11
Fayette.....	6	Medina.....	7	Warren.....	7
Franklin*.....	431	Meigs.....	4	Washington.....	3
Fulton.....	3	Mercer.....	1	Wayne.....	7
Gallia.....	8	Miami.....	8	Wood.....	4
Geauga.....	3	Monroe.....	1	Wyandotte.....	2

SUMMARY BY STATES AND COUNTRIES

Alabama.....	1	Massachusetts.....	4	Ohio.....	973
Bulgaria.....	1	Michigan.....	1	Pennsylvania.....	7
Canada.....	1	Minnesota.....	1	Texas.....	1
Georgia.....	2	Missouri.....	3	Virginia.....	4
Illinois.....	4	Montana.....	1	Washington, D. C.....	1
Indiana.....	1	New Jersey.....	3	West Virginia.....	5
Kansas.....	1	New York.....	3	Wisconsin.....	1

AGES OF STUDENTS

(As Far as Known)

Sixteen.....	1	Twenty-four.....	57	Thirty-two.....	11
Seventeen.....	14	Twenty-five.....	50	Thirty-three.....	3
Eighteen.....	58	Twenty-six.....	38	Thirty-five.....	3
Nineteen.....	111	Twenty-seven.....	24	Thirty-six.....	1
Twenty.....	129	Twenty-eight.....	17	Thirty-seven.....	1
Twenty-one.....	140	Twenty-nine.....	5	Thirty-nine.....	1
Twenty-two.....	117	Thirty.....	4	Forty-one.....	1
Twenty-three.....	102	Thirty-one.....	5		

*Nearly forty per cent of the students registered from Franklin county are those whose homes are at Columbus only during their University course.

GRADUATES

Graduates

The Faculty of the Ohio State University are anxious to place a copy of each annual catalogue in the hands of every graduate. They will esteem it a favor if any alumnus who changes his residence will notify the Executive Office of his new address and occupation. They will also be grateful for any information from any source, that may assist in making or keeping the Directory of the Alumni complete and correct.

ALUMNI ASSOCIATION

OFFICERS FOR 1897-98

CHARLES F. SCOTT, '85, Pittsburg	<i>President</i>
WILLIAM R. MALONE, '85, Columbus	<i>Vice-President</i>
JOHN A. BOWNOCKER, '89, Columbus	<i>Secretary</i>
FRANK A. RAYMOND, '88, Columbus	<i>Treasurer</i>
CLAYTON W. DELAMATER, '84, Omaha, Neb	<i>Orator</i>
WILLIAM W. KEIFER, '86, Springfield	<i>Alternate</i>

COMMITTEE ON COLLEGE AFFAIRS

EDWIN E. CORWIN, '80, Columbus	Term expires	1898
SCOTT ANDERSON WEBB, '88, Columbus	"	1899
WALTER J. SEARS, '94, Chillicothe	"	1900
FLORIZEL SMITH, '80 Columbus	"	1901
LOUISE HERRICK, '93, Columbus	"	1902

COMMITTEE ON NECROLOGY

WILLIAM L. GRAVES, '93, Columbus	Term expires	1898
GEORGE S. MARSHALL, '94, Columbus	"	1899
WILBY G. HYDE, '87, Chillicothe	"	1900

Directory.

A

Ackerman, Eli Osborn, 1884, C. E., 2664 North High street, Columbus, farmer.
Ackerman, Fremont, 1883, C. E., Los Angeles, Cal., civil engineer.
Addison, Arthur Evert, 1895, B. Ph., Columbus, teacher South High School.
Addison, Louis Granville, 1892, LL. B., Columbus, attorney-at-law.
Addison, Clarence Maywood, 1896, B. Ph., Columbus, teacher Central High School.
Agler Eulalia, 1895, G. Ph., Columbus.
Albert, Louisa Mary, 1896, G. Ph., Mrs. A. E. Vinson, Columbus.
Aldrich, Chester H., 1888, B. A., LL. B., David City, Neb., attorney-at-law.
Aldrich, Edgar S., 1897, EE., Columbus.
Alexander, St. Clair, 1893, M. E., Bridgeport.
Allaman, William Ernest, 1896, G. Ph., Brookville.
Allen, Lucy, 1897, B. A., Columbus.
Aldorf, Percy Reed, 1896, E. M., Central City, Col., Standard Assay office.
Aldorf, Frederick Charles, 1892, E. M., Central City, Col. general manager, Duquesne Mining Co.
Alspach, Rufus Edwin, 1897, M. A., (B. A. Heidelberg), Thornville.
Anderson, James T., 1884, B. A., Colorado Springs, Col., 1st Lieutenant U. S. Army.
Anderson, Newton M., 1879, B. Sc., Principal of the University School, Cleveland.
Andrews, Albion Joseph, Jr., 1893, LL. B. (B. S., Ohio Wesleyan University), Zanesville, O.
Andrews, Lincoln Elmer, 1893, LL. B., 1895, B. Ph., Columbus, attorney-at-law.
Armstrong, Edna, 1897, B. Ph., Columbus.
Armstrong, William H., 1890, G. Ph., Marysville, druggist.
Arnold, Charles Lincoln, 1890, B. Sc., 1884, M. Sc., West Eighth Ave., Columbus, assistant in mathematics, State University.
Atkins, G. Glenn, 1888, B. A., Greenfield, Mass., pastor Congregational Church.
Auld, James A., 1897, E. E., Columbus.

B

Bachtell, Nellie May, 1895, B. A., Columbus.
Backhaus, Henry Ward, 1894, B. A., St. Mary's.
Baer, Philip, Jr., 1897, B. Sc., (Agr.) Gratiot, Creamery operator.
Bagley, Anna Gertrude, 1894, G. Ph., Columbus.
Baker, John Ezra, 1897, B. A., St. Paris.
Baker, William Hollister, 1892, B. Agr., Farmersville, Mo., farmer and stock raiser.
Baldwin, Zoa Belle, 1896, B. A., Columbus.
Ball, Emma Leanna, 1895, B. Sc., 1896, M. Sc., Ironton.
Ball, Fred S., 1888, B. Ph., Montgomery, Ala., attorney-at-law.
Barcus, Miner, 1897, E. E., Columbus.
Barnaby, Josephine, 1896, B. Ph., Warren, teacher.
Bartholomew, Clyde Stanley, 1896, C. E., Newark, civil engineer, B. & O. Ry.
Basterdes, Ada Mabel, 1890, B. Ph., Plano, Ill., teacher in High School.
Bates, Josephine M., 1881, B. Ph., Mrs. Florizel Smith, Columbus.
Bates, Wesley C., 1882, LL. B., 35½ N. High street, Columbus, attorney.

- Baughman, George W., 1897, G. Ph., Leipsic.
- Beach, David Price, 1895, C. E., Pittsburg, Pa., in employ of Pennsylvania Railroad.
- Beach, Margaret Alice, 1891, B. Ph., (Mrs. Wilson Holman,) Bayonne, N. J.
- Beattie, William Renick, 1894, B. Sc., 1897, M. Sc., (in Horticulture), florist State University.
- Beck, Arthur Andrew, 1893, C. E., Columbus, county surveyor's office.
- Belden, Sanford Bonner, 1895, E. M., Chicago, Ill., with Chicago Electric Mining Engineering Co.
- Bell, Mary Edith, 1894, B. Ph., St. Paul, Minn., teacher in High School.
- Bennett, Herry C., 1890, B. A., 100 Washington street, Chicago, Ill., attorney-at-law.
- Bennett, Samuel E., 1890, D. V. M., Kansas City, Mo., Gov't Meat Inspector.
- Bently, William Preston, 1885, B. Agr. (B. A. 1890, M. A. 1893, Bethany College), 15 Miller Road, Shanghai, China, missionary.
- Bertsch, Joseph Franz, 1896, LL. B., Columbus.
- Bibbee, George E. 1897, LL. B. (A. B., Ohio Wesleyan University), Columbus.
- Biebel, Herman Matthews, 1896, M. E.
- Bissing, William, 1893, M. E. Washington, D. C., patent office.
- Blackburn, Frank H. 1896, M. E., New Vienna.
- Blaire, Edward Grey, 1895, G. Ph., Shawnee, pharmacist.
- Blakiston, Anna Houston, 1897, B. Ph., Columbus.
- Blakiston, Mary, 1893, B. Ph., Columbus, teacher in South High School.
- Blinn, Ray S., 1893, B. S.
- *Bloom, Edwin M., 1893, B. Sc., died, 1894.
- Bloom, J. George, 1889, C. E., Cincinnati, assistant engineer, B. and O. S. W. R'y.
- Bloomfield, Lloyd Morris, 1891, B. Agr., Wooster.
- Boesche, Felix John, 1896, G. Ph., New Bremen.
- Boesel, Frank Tilden, 1896, B. Ph., student, Harvard Law School.
- Bogue, Ernest Everett, 1894, B. Sc. H. & F., 1896, M. Sc., Professor of Botany and Horticulture, Agricultural and Mechanical College Okla.
- Bone, John H., 1893, B. Sc.; 1896, B. Sc. (Agr.), assistant in Agriculture, Agricultural and Mechanical College, Okla.
- Booth, Lucy Adelaide, 1892, M. A., (B. A., Ohio Wesleyan University), 1894, Ph. D., Columbus.
- Bope, George W., 1897, LL. B., Columbus.
- Bower, Jerome G., 1897, M. E., Waynesburg, Pa.
- Bownocker, John A., 1889, B. Sc., M. Sc. Yale University, 1897. D. Sc., Columbus, assistant in geology, State University.
- Boyd, Emma, 1888, B. Ph., 38 W. Woodruff ave., Columbus, teacher in the North High School.
- Boyd, James G., 1897, D. Y. M., Columbus fellow in Veterinarv Medicine, State University.
- Boyd, James Ellsworth, 1891, B. Sc., Columbus, assistant professor of Physics State University.
- Boyd, Martin L., 1897, L. L. B., Columbus.
- Bradford, Ernst, 1892, G. Ph., S. Garfield ave., Columbus, chemist.
- Bradford, Joseph Nelson, 1883, M. E., 54 West Tenth avenue, Columbus, associate professor of drawing, State University.
- Brand, Harry Frank, 1896, B. Ph., 1897, LL. B., Worthington.
- Brandt, Ulysses Sherman, 1895, B. A., Canal Winchester, superintendent schools,
- Braun, Joseph G., 1897, G. Ph., Columbus.
- Brewer, John Whitney, 1896, G. Ph., Columbus.
- Brier, Harvey E., 1890, D. V. M., Tippecanoe City, veterinary surgeon.
- Bronson, Herman S., 1897, LL. B. (B. L. Cornell University), Columbus, attorney.
- Brown, Frederick W., 1888, E. M., Bellefontaine, superintendent Buckeye Portland Cement Co.

- Brown, Newton H., 1893, M. E., fellow, Cornell University.
 Bruce, Charles A., 1895, B. A., Columbus, assistant in French, State University.
 Brumley, David Joseph, 1895, C. E. Evansville, Ind., with L. & N. R'y.
 Bruning, Henry Dietrick, 1896, C. E. Columbus.
 Buckman, Arthur Leslie, 1897, E. E., Norwalk.
 Buckman, Ola, 1885, B. Sc., (M. D. Cleveland University of Medicine and Surgery.)
 Norwalk.
 Burkett, Charles William, 1895, B. Sc., assistant in Agriculture, State University.
 Burkett, Dora Van Buren, 1897, B. Ph., Columbus.
 Burns, James Ferguson, 1891, C. E. Evansville, Ind., assistant engineer L. & N. R'y.
 Burr, Harriet G., 1897, B. A. Worthington.
 Butler, James Marion, 1894, LL. B. (A. B., Ohio Wesleyan University), Carmel.
 Byers, Clara, 1894, B. Ph., (Mrs. Coles A. Raymond), Evanston, Ill.

C

- Cahen, Alfred, 1894, LL. B., Allegheny, Pa.
 Calkins, George Herbert, 1895, M. E., Columbus.
 Canfield, Charles H., 1897, D. V. M., Akron.
 Canfield, Leander Randall, 1896, B. Ph., Chardon.
 Capron, Marshall Fremont, 1888, M. E., Kenton, architect.
 Carr, Hugh Stanley, 1896, E. E., Yellow Springs.
 Carr, James Gray, 1897, B. A., Coshocton.
 Carroll, Patrick Henry, 1894, E. M., Houtzdale, Pa.
 Carroll, William Hunt, 1894, LL. B., Wilmington.
 Carson, Samuel King, 1895, M. E., Columbus, student, Ohio Medical University.
 Cathcart, Josephine M. 1888, B. Sc., Hudson, bookkeeper.
 Catlin, Homer Clark, 1896, C. E., Bellefontaine.
 Canaga, George Orlando, 1895, LL. B. (B. A., Scio College).
 Cartwright, Henry Gilroy, 1895, LL. B.
 Cellarius, Frederick Julius, 1888, C. E., Dayton, civil engineer.
 Chamberlain, Helena W., 1884, B. A., Mrs. Ellis Lovejoy, Union Furnace.
 Charters, William Filson, 1887, B. Ph., Sidney, tax inquisitor.
 Cherryholmes, W. K., 1881, B. Sc., M. D., Hamilton physician.
 Chalmers, Agnes Florida, 1895, B. Ph., Bay City, Mich., teacher.
 Cilley, Raymond, 1896, C. E., Cincinnati.
 Clay, Albert Arlington, 1893, LL. B. (B. A., Tri-State Normal College), Hicksville.
 Claypoole, Bessie Smith, 1895, B. Ph., Columbus, student.
 Claypoole, Charlotte Lake, 1892, B. Ph., Columbus, North High street.
 Clum, George V., 1893, B. A., Mendota, Ill., president of Mendota College.
 Cockins, Edith D. 1894, Columbus, Registrar, State University.
 Coddington, Edwin F., 1896, C. E. 1897, M. Sc., fellow in Astronomy, Lick Observatory, Mount Hamilton, California.
 Cole, George Nathan, 1891, M. E., Chicago Ill.
 Cole, Marietta C., 1897, B. Ph., Chicago, Ill.
 Collins, Curtis, 1895, M. E.
 Coney, William Hawks, 1894, B. Sc., Honolulu, S. I.
 Connell, Laura Jewell, 1896, B. Ph., Columbus, teacher of German.
 Connell, William A., 1886, E. M., Portsmouth.
 Converse, Edward Joseph, 1886, B. A., (B. D., Yale University), Columbus, Ass't pastor,
 First Congregational Church.
 Converse, Howard Pendleton, 1887, B. Sc., 166 Devonshire street, Boston, Mass.
 manager Boston office Cooper, Hewitt & Co., steel and iron manufacturers.
 Conway, Hugh Lawrence, 1896, C. E., Springfield.

- Cope, Albert N., 1897, E. E. Kingston.
 Corner, Florence, 1897, B. Ph., Columbus.
 Corns, Harry, 1897, B. A., Columbus, teacher in Central High School.
 Corwin, Edwin E., 1880, B. A., 89 East Fifth avenue, Columbus, attorney-at-law.
 Cotes, Albert E., 1897, B. Sc., Springfield.
 Coursault, Jesse H., 1893, B. A., Columbus, teacher in Central High School.
 Covell, Vernon Royce, 1895, C. E., Pittsburg, Pa.
 Craig, Moses, 1889, B. Sc., (M. S., Cornell University, 1890), 1896, M. Sc. H. & F., Agricultural and Mechanical College, Corvallis, Oregon.
 Cratty, John Mason, 1897, B. Sc., Cincinnati, chemist.
 Crawford, Ira, Jr., 1893, LL. B. (B. S., Dennison University), Dayton.
 Crawford, William Sterling, 1888, B. Ph.
 Cromley, Alva M., 1897, G. Ph., Ashville.
 Crooks, Charles Melville, 1892, B. A.
 Crouner, Delbert Alonzo, 1896, B. Sc., (Agr.), Ohio Experiment Station, Wooster.
 Cummins, Henry Rollins, 1891, G. Ph., Hunter Street, Columbus.
 Cunningham, Arthur, 1880, B. A., 107 Lincoln street, Columbus, bookkeeper.
 Cunningham, Edward Walter, 1894, C. E., Pittsburg, Pa., with Pittsburg Bridge Company.
 Cunningham, George S., 1886, B. Ph., LL. B., Lancaster, attorney-at-law.
 Cunningham, John Ferguson, 1897, B. Sc. (H. and F.), Columbus, fellow in Horticulture, State University.

D

- Daily, Henry G., 1892, D. V. M., Wooster, veterinary surgeon.
 Damron, Carson W., 1897, M. E., Gallipolis.
 Daniels, David Edwin, 1893, LL. B. (B. Ph., Dennison University), 1896, LL. M., Columbus.
 Davenport, Adrian E., 1897, B. A. Columbus.
 Davidson, David Millen, 1894, B. A., law student, Chicago, Ill.
 Davies, Jennie C., 1897, B. Ph., Columbus.
 Davies, John Lodwick, 1894, LL. B., Minneapolis, Minn., attorney-at-law.
 Davis, Charles William, 1894, E. M., Colorado Springs, Col., teacher of science, High School.
 Davis, Oscar Allen, 1897, E. E., Alliance.
 Deahl, Walter Smith, 1896, C. E., Columbus.
 Deardurff, Carl Mason, 1895, B. A.
 DeLamater, Clayton William, 1884, A. B., LL. B., Omaha, Neb., attorney-at-law.
 DeLoffre, Andre, 1896, E. E., Fort Logan, Col.
 DeLoffre, Samuel Middleton, 1895, B. A.
 Dennis, Jerry, 1892, LL. B., 1893, LL. M., Columbus, attorney-at-law.
 Derby, Florence Harlow, 1896, B. Ph., Columbus, graduate student, State University.
 Detmers, Fredericka, 1887, B. Sc., 1891, M. Sc., 1215 Neil avenue, Columbus, teacher.
 Devol, William Stowe, 1886, B. Agr., Riverside, Cal.
 Diemer, Hugo, 1896, E. E., The Bullock Electric Manufacturing Co., Cincinnati.
 Dietrich, Charles Henry, 1878, B. Sc., with American Book Co., general manager for Kentucky.
 Doney, Carl Gregg, 1891, B. Sc., 1893, LL. B., Granville, pastor First M. E. Church.
 Donham, Maurice, 1896, M. E., Cincinnati.
 Donham, William W., 1882, B. Sc.
 Dresbach, Melvin, 1897, B. Sc., Columbus, fellow in physiology, State University.
 Dun, George William, 1884, B. Sc., Columbus, business manager, Press-Post.
 Dun, John J., 1883, E. M., Fifteenth avenue, Columbus, of Columbus Construction Co.

- *Dun, Walter Angus, 1878, B. Sc., M. D., died November 7, 1887.
 Dungan, Irvine Laird, 1892, B. Ph., Cincinnati, Lane Theological Seminary.
 Dunlap, Thaddeus Cox, 1895, M. E., Columbus.
 Dunlap, William Renick, 1895, B. Sc., Kingston, farmer.
 Dunnick, Edward, 1897, C. E., Columbus.
 Duvel, Joseph W. T., 1897, B. Sc., Wapakoneta.
 Dye, Clair Albert, 1891, G. Ph., Columbus, assistant professor of pharmacy, State University.

E

- Eagleson, Grace, 1897, B. Ph., Columbus.
 Early, Franklin E., 1893, D. V. M.
 Easterday, Charles Todd, 1891, G. Ph., Wellston, druggist.
 Edwards, Mary Winifreda, 1897, B. A., Columbus, student Normal School.
 Egbert, Knott C., 1890, B. Agr., Klamath Indian Agency, Oregon.
 Ellis, Charles, 1889, D. V. M., 3230, Locust street, St. Louis, Mo., veterinarian.
 Emery, Peyton Randolph, 1893, LL. B., London.
 Emery, Vernon Judson, 1887, B. A. (A. M., University of Nebraska), Cleveland, assistant professor of Latin, Western Reserve University.
 Erskine, John H. 1886, E. M., Lowellville, fire brick manufacturer.
 Evans, Ernest, 1892, B. Sc., Mingo Junction, chemist, Laughlin Junction Steel Co.
 Evans, Peter Platter, 1892, C. E., Cleveland, engineer C., L. and W. Railroad.
 Evans, William Lloyd, 1892, B. Sc., 1896, M. Sc. Columbus, first assistant director of the Department of Clayworking and Ceramics, State University.
 Eysenbach, Ernest, 1896, E. M., Columbus, with Columbus Gas Co.

F

- Fairchild, Harmon Scott, 1894, LL. B., Springfield.
 Farber, Charles Harker, 1894, B. A., Columbus, with State Savings Association.
 Fassig, Oliver L., 1882, B. Sc., Washington, D. C., librarian U. S. Weather Bureau.
 *Fay, Frederick Willis, 1882, B. A., B. Arch., died August, 1892.
 Fay, Mona, 1897, B. Ph., Sidney, teacher in High School.
 Feicht, Russell Stimson, 1890, M. E., Philadelphia, Pa., Philadelphia Traction Co.
 Fergus, John Franklin, 1892, LL. B. Columbus, attorney-at-law.
 Finley, Harry Marshall, 1894, B. A. Maysville, Ky., teacher in High School.
 Fischer, Julius H. R. Paul, 1891, B. Agr., D. V. M., professor of veterinary medicine, Manhattan, Kas.
 Fischer, Robert, 1895, G. Ph., 1896, M. Ph., Columbus, fellow State University.
 Fischer, Walter, 1897, B. Sc., Columbus.
 Fisher, Clara, 1886, B. A., Mrs. J. Porter Milligan, Columbus.
 Fisher, Georgietta, 1895, B. A., Mt. Vernon, teacher in High School.
 Fitzgibbon, James Robert, 1894, LL. B., Newark.
 Floto, Julius, 1889, E. M.
 Flynn, Harry Franklin, 1892, C. E., Washington, D. C., computer U. S. Geodetic and Coast Survey.
 Flynn, Maud, 1896, B. Sc., Columbus, student, Columbus Normal School.
 Flynn, Oscar Rodgers, 1896, B. Sc., teacher in High School, Columbus.
 Foley, William J., 1894, D. V. M., Lexington, Ky.
 Forgy, Ralph Morris, 1896, B. Ph., Pueblo, Col.
 Foster, Dudley Hampton, 1895, B. Ph., LL. B., attorney-at-law, Corning.
 Foster, Frank McMillan, 1894, M. E., Blanchester.
 Foulk, Charles William, 1894, B. A., assistant in chemistry, State University.
 Fowler, Harry R., 1894, M. E.

- Fox, Charles P., 1890, B. Agr., 1895, M. Agr., Columbus, graduate student, State University.
- Fox, Frederick Hugh, 1896, B. Ph., McConnelsville.
- Fox, John Herbert, 1897, M. E., Columbus, fellow, Industrial Arts, State University.
- Fulmer Edward L., 1897, B. Sc., Columbus, graduate student, State University.
- Francis, Edward, 1894, B. Sc., Cincinnati, interne, Cincinnati Hospital.
- Francis, Mark, 1887, D. V. M., College Station, Brazos Co., Tex., professor of veterinary medicine, Agricultural and Medical College.
- Fravel George B., 1888, M. E., Indianapolis, Ind., assistant master mechanic, Pan Handle shops.
- Frayser, Lee Ambrose, 1896, M. E., Greenwich.
- French, Thomas Ewing, 1895, M. E., Columbus, assistant in drawing, State University.
- Fritchle, Oliver Parker, 1896, B. Sc., Mt. Hope.

G

- Gains, Charles E., 1889, B. Ph., London, physician.
- Galbraith, John Howard, 1883, B. Ph., Oak street, Columbus, journalist.
- Gale, Cora C., 1893, B. Ph., Columbus.
- Gale, Franklin Henry, 1893, LL. M. (LL. B., University of Michigan), Columbus.
- Gallen, William Francis, 1897, M. E., Columbus.
- Game, Reed Haskell, 1896, B. Ph., student in College of Law, State University.
- Garber, Alberta D., 1889, B. Ph., A. M., Boston, Mass.
- Garber, John Murray, 1897, C. E., Belleville.
- Gee, Eugene C., 1897, E. E., Wheeling, W. Va.
- Gehrkins, Edward Frederick, 1894, E. E., Schenectady, N. Y., with General Electric Co.
- Geissinger, James Allen, 1895, B. A., Cincinnati.
- Genheimer, Eli Thomas, 1896, B. Ph., Wheelersburg.
- Genheimer, William F., 1897, LL. B., Portsmouth.
- Gibbs, George C., 1893, B. A., Columbus, with Green, Joyce & Co.
- Given, James Byron, 1896, E. E., New Concord.
- Givens, Newton Edgar, A. B., 1896, LL. B., Waverly.
- Glover, Sioux, 1882, B. Sc., Mrs. Horton, Errid, Pa.
- Goddard, Loring Hapgood, 1892, C. E., Columbus, architect.
- Goodell, Ralph Spencer, 1892, C. E., Columbus, draughtsman Columbus Bridge Co.
- Goodman, Joseph Clarence, 1896, LL. M., Columbus.
- Goodman, Sylvester Jacob, 1896, G. Ph., Columbus, student, Ohio Medical University.
- Gordon, Adelaide Cummins, 1896, B. Ph., Columbus.
- Grandle, Frank Albert, 1891, G. Ph.
- Graves, William L., 1893, B. A., 1897, M. A., assistant professor in Rhetoric State University.
- Gray, James Collam, 1892, LL. B., 1893, LL. M., Pittsburg, Pa., attorney P. R. R'y.
- Green, Charles C., 1885, B. Sc., M. D., Beaver City, Neb., physician.
- Green, Jerome Joseph, 1893, M. E., South Bend, Ind., Notre Dame University, professor in charge of electrical department.
- Green, Robert Lee, 1892, G. Ph.
- Gregg, Frank B., 1889, B. Ph., M. D.
- Gregory, Hiram D., 1880, E. M., attorney-at-law, Grayson, Ky.
- Griffin, Mark H., 1897, E. E., Xenia, electrical engineer Soldiers' and Sailors' Orphans Home.
- Griffin, Theodore L., 1889, B. Sc., M. Sc., Columbus, chemist.
- Griffith, David Mathias, 1896, LL. B., Kecksburg, Pa.

- Griffith, Wellington John, 1892, LL. B., Tiffin.
 Grimsley, George Perry, 1890, B. A., 1891, M. A., (Ph. D., Johns Hopkins University, 1894), Topeka, Kansas, professor natural history, Washburn College.
 Griswold, Lawrence William, 1892, B. A., New York City, London Assurance Co.
 Groff, Orsylla Ann, 1894, G. Ph., North High street, Columbus, pharmacist.
 Groff, Warren Noble, 1896, B. A., Tiffin, law student.
 Guerin, Martha, 1896, B. Ph., Columbus.
 Gugle, George Linville, 1896, LL. B., Columbus, attorney.
 Gugle, Marie, 1897, B. A., Columbus.
 Guittard, Virgil, 1894, B. Sc., New Bedford.
 Guitteau, William B., 1897, B. Ph., Columbus, law student, State University.
 Guss, Sherman Hamlin, 1892, B. A., Clarksburg, W. Va., principal of the colored schools.

H

- Haas, Frank, 1895, C. E., 1896, E. M., assistant in metallurgy, State University.
 Hagler, Howard, 1889, B. Sc., Washington C. H., farmer.
 Hall, Harry R., 1889, E. M., Parryville, Pa., chemist Carbon Iron and Pipe Co.
 Halterman, Oscar Elmore, 1895, LL. B., (B. S., National Normal University).
 Hamilton, Charles R., 1893, B. A., Zanesville, Dun's Commercial Agency.
 Hamilton, Frank Alexander, 1895, D. V. M., Dubois, Pa., veterinary surgeon.
 Hammond, Bessie B., 1897, B. Ph., Columbus.
 Hammond, Rose Lyttle, 1896, B. Ph., Columbus, teacher.
 Hancock, David R., 1889, G. Ph., M. D.
 Haney, Thomas Carlyle, 1894, G. Ph., Columbus, pharmacist.
 Hannum, William Hamilton, 1887, B. A., Ratnagiri, India; American Presbyterian Mission in Western India.
 Harbage, Arnett, 1893, D. V. M., West Jefferson, farmer.
 Harlor, John David, 1895, B. A., Columbus, teacher in High School.
 Harris, Frank Laverne, 1894, LL. B., (Ph. B., Tri-state Normal University), Payne.
 Harris, Walter Conger, 1893, B. Sc., 68 W. Thirty-fifth street, New York, with Art Department of Herald.
 Harrison, Warner, 1892, LL. B., East Town street, Columbus, attorney and solicitor C., A. & C. Railway.
 Harrison, William Henry, 1885, C. E., Anaconda, Montana.
 Harrold, Ernest Ellwood, 1895, G. Ph., dispenser chemical store-room, State University.
 Hartwell, Arthur, 1888, M. E., Pittsburg, Pa., electrical engineer Westinghouse Electrical and Manufacturing Co.
 Hartwick, Louis M., 1897, M. E., Marietta.
 Harvey, Arlington Corylle, 1896, B. Ph., 1897, M. A., Mount Perry, teacher in High School.
 Harvey, Emory Wayland, 1896, B. Ph., Cleveland, teacher.
 Harvey, Sherman Lee, 1896, G. Ph., Harrisburg.
 Hassler, Robert Hanich, 1892, M. E., Dayton.
 Hayes, Seth, 1892, B. Sc., Fremont, principal of High School.
 Hayward, George E., 1893, C. E., New Philadelphia, engineer, C. L. E. & W. Ry.
 Hazlett, Robert, Jr., 1887, C. E.
 Heath, Arthur T., 1887, G. Ph., Harbor, analytical chemist.
 Hebble, Charles Roy, 1896, E. E., Xenia.
 Hedges, Harry, 1888, B. A.
 Heller, Albert Henry, 1890, C. E.
 Henretta, Charles Michael, 1896, E. M., Moundsville, W. Va.

- Herbert, Charles T., 1897, LL. B., Columbus, attorney.
 Herrick, Louise, 1893, B. A., Columbus, teacher in High School.
 Hess, Florence Louise, 1895, B. Ph., Columbus.
 Hiatt, William Arthur, 1895, B. Ph., Deshler, Supt. of schools.
 Higbee, Charles E., 1883, B. Sc.
 High, Odessa, 1896, B. A., Resaca, teacher.
 Hill, Frank E., 1886, B. Sc., M. D.
 Hill, I. T. Reynolds, 1896, B. Sc. (H. & F.), Berlin Heights.
 Hine, James S., 1893, B. Sc., Columbus, assistant in Entomology, State University.
 Hine, Lucius A., 1888, E. M., Chicago, Ill.
 Hirsch, Gustav, 1897, E. E., Columbus.
 Hoel, Sarah Elizabeth, 1893, B. Sc. (Mrs. W. M. Mills), North Tonawanda, N. Y.
 Hoffman, Arthur Sullivant, 1897, B. A., Coshocton, teacher in High School.
 Homan, Frank, 1895, C. E., New Straitsville, engineer.
 Hood, Sherman, 1894, B. Sc., Meander, gardner.
 Hopkins, Charles Delnow, 1893, LL. B. (B. A., Ohio Wesleyan University), Athens.
 Horton, Henry Pomeroy, 1889, B. Ph.
 Houseman, Ruth U., 1897, B. Ph., Painesville, teacher in High School.
 Houston, Anna Christine, 1892, B. Ph., 1895, M. A., Marysville.
 Howald, Ferdinand, 1878, B. Sc., Rush Run, W. Va., manager of mining operations.
 Howard, A. B., 1883, B. Ph., Price Hill, Cincinnati, clergyman.
 Howard, Curtis C., 1878, B. Sc., M. Sc., 115 Jefferson avenue, Columbus, professor of chemistry in Starling Medical College.
 Howard, Fanny Fern, 1896, B. A., Columbus.
 Howard, Edward Davenport, 1894, LL. B., 1896, LL. M. Columbus, assistant prosecuting attorney, Franklin county.
 Howard, John Wilmot, 1895, B. Sc., Columbus, assistant secretary, Board of Trade.
 Howells, Thomas J. 1897, E. M., Martins Ferry.
 Hubbard, Ralph Newton, 1891, B. Sc., Columbus, Columbus Machine Co.
 Hughes Raymond Mollyneaux, A. B. Oxford, 1897 M. Sc.
 Huddleson, Don Carlos, 1897, G. Ph., Columbus.
 Hull, Mary Louise, 1894, B. A., Columbus, (Mrs. C. H. Farber).
 Humphrey, J. Scott, 1879, B. Sc., Findlay, civil engineer.
 Humphreys, Leona, 1895 B. A., Plain City.
 Hunt, William Franklin, 1887, M. E., attorney-at-law, New York Life Building, St. Paul, Minn.
 Huston, Charles H., 1897, LL. B., (B. S. Tri-State College, Ind.) Mansfield.
 Hyde, Wilby Grimes, 1887, B. A., (LL. B., Cincinnati) Chillicothe, attorney-at-law.
 Hyle, Charles A., 1896 E. E., Columbus.

I

- Ingram, Imogene, 1897 B. Ph. Columbus.
 Innis, Lyman H., 1893, B. A., 1895, LL. B. Columbus, attorney.
 Ireland, Guy Llewellyn, 1895, M. E., Cincinnati.
 Irvin, Chadwick H. 1897, M. E., Columbus.

J

- Jackson, Frank Pierce, 1892, LL. B., 1893, LL. M., Columbus, attorney.
 James, Florence May, 1896, B. A., (Mrs. Oscar R. Flynn) Columbus.
 Jeffrey, Maud Dorothy, 1895, B. Ph., assistant in library, State University.
 Jenkins, William B., 1893, C. E. Wilmington, Columbus and Athens R'y.
 Jenkins, Willis H, 1894, C. E., New York City, engineer, Street Cleaning Department.

- Jennings, Levi E., 1897, E. E., Eaton.
 Johnson, Charles W., 1896, E. E., Cincinnati.
 Johnson, George Edward, 1892, C. E., 67 E. State street, Columbus, N. & W. R'y.
 Johnson, Herbert Lincoln, R. M. E., Cincinnati, General Electric Co.
 *Jones A. A., 1886, C. E., died May, 1894.
 Jones, Aaron Wesley, 1891, B. Sc., Columbus, Gardner Insurance Agency.
 Jones, Alexander Houston, 1895, M. E., Cleveland.
 Jones, Benner, 1897, LL. B., Jackson.
 Jones, Daniel D., 1893, G. Ph., Gallipolis, pharmacist, Epileptic Hospital.
 Jones, Jesse Lee, 1890, B. A., Philadelphia, Pa., chemist William Cramp & Sons, ship-builders.
 Jones, Paul, 1880, B. A., Columbus, attorney-at-law, city solicitor of Columbus.
 Jones, Pearl N., 1892, M. E., Pittsburg, Pa., Westinghouse Electrical and Manufacturing Co.
 Jones, Smiley, 1894, E. M., Downieville, Cal., electrician Gold Bluff mine.
 Jones, William Francis, 1896, D. V. M., Shandon.
 Judd, Horace, 1897, M. E., Columbus, fellow in Mechanical Engineering State University.
 Judkins, Clyde H. 1897, LL. B. (A. B. Scio College) Flushing.
 Junk, Harry Prior, 1895, LL. B. Columbus, attorney-at-law.

K

- Keagle, Anna Brown, 1895, B. Ph., Columbus, teacher public schools.
 Keffer Frederic, 1892, M. E., Anaconda, B. C. Supt. Boundary Creek Mining Co.
 Keifer, William White, 1886, B. A. (LL. B., Cincinnati), Springfield, attorney-at-law.
 Keiser, Romeo Orpheus, 1892, B. Sc., 1896, G. Ph., Columbus, assistant in chemistry, Ohio Medical University.
 Kellison, Edward Lafayette, 1897, B. Ph., Quincy.
 Kemmler, Edward A., 1888, C. E., 895 S. High street, Columbus, assistant city engineer.
 Kerr, Samuel Thompson, 1894, M. E., Martin's Ferry, superintendent Electric Light Plant.
 Kershaw, Francis Stewart, 1891, B. Ph., Boston, Mass.
 Kershaw, Samuel Charles, 1892, B. Ph., Columbus, bookkeeper Columbus Bolt Works.
 Kester, Fred. Edward, 1895, M. E., Columbus, assistant in physics, State University.
 Kiesewetter, Frank Louis, 1891, C. E., Columbus, Ohio State Savings Bank.
 Kiler, Abdel William, 1896, G. Ph., druggist, Columbus.
 Kirker, Harry L., 1889, B. Sc.
 Kiser, Katherine Daniel, 1895, B. A., Chicago Junction, principal High School.
 Kline, Charles H., 1897, E. E., Dayton.
 Knauss, William Henry, 1895, B. Sc., student Starling Medical College.
 Knight, Ruby Ray, 1895, B. Sc., Columbus.
 Knopf, Eva S., 1895, B. Ph., Columbus, teacher in High School.
 Knopf, George W., 1883, B. Sc., Pittsburg, Pa., bridge builder.
 Krauss, Bertha Katharine, 1892, Ottawa, teacher High School.
 Krieger, Charles Henry, 1887, G. Ph., Columbus, superintendent the Kauffman-Latimer Co.
 Krumm, Charles S. M., 1896, student, College of Law, State University.
 Krumm, Lillian Louise, 1895, B. Ph., (Mrs. Harry Rush Wilson), Columbus.
 Kuhn, Vallie Howard, 1896, E. E. Etna.
 Kuhn, Harry Waldo, 1897, B. Sc., Columbus, fellow in mathematics, State University.

L

- Lamme, Benjamin G., 1888, M. E., Pittsburg, Pa., engineer Westinghouse Electrical and Manufacturing Co.
- Lamme, Bertha A., 1893, M. E., Pittsburg, Pa., Westinghouse Electrical and Manufacturing Co.
- Landacre, Francis Leroy, 1895, B. A., assistant in zoology and entomology, State University.
- Landacre, Walter Alexander, 1891, G. Ph., Columbus, student State University.
- Landis, Walter Victor Titus, 1895, B. Ph., Dayton.
- Large, Joseph H., 1890, C. E., Pittsburg Pa., assistant inspector of bridges Pennsylvania Southwest system.
- Laughlin, Hugh Clarence, 1890, B. A., (A. M. 1895, University of Nebraska) Hazelton, Pa., assistant principal in High School.
- Lavery, William F., 1890, D. V. M., veterinary surgeon, State University.
- Lawrence, Arthur K., 1897, G. Ph., Columbus.
- Layton, Roy Everett, 1895, B. A., 1897, LL. B., Wapakoneta, attorney.
- Lee, Edwin S., 1893, G. Ph., Columbus, druggist.
- Lee, Robert M., 1897, M. E. Columbus.
- Leffler, Edward Victor, 1896, G. Ph., Leipsic.
- Lemert, Helen Ora, 1894, B. A., Columbus, teacher High School.
- Lentz, Alice B., 1897 B. Ph., Lloydsville.
- Lentz, Theresa, 1893, B. Ph., Bellaire, teacher in High School.
- Leonard, James Lincoln, 1893, LL. B. (B. S., Ohio Normal University), Welcome.
- Levering, Orpheus D., 1893, M. E. Melden, Mass., Wire Grip Machinery Co.
- Lewis, Charles Montgomery, 1881, B. A., Columbus, with Columbus Evening Dispatch.
- Lewis, Thomas K., 1894, B. Sc., Columbus, assistant in drawing, State University.
- Lincoln, Paul Martyn, M. E., Niagara N. Y., superintendent The Cataract Construction Co.
- Lindo, William C., 1896, C. E., Montague, Jamaica.
- Linson, Irvin, 1882, B. A.
- Lisle, Mabel, 1897, B. Ph., Columbus.
- Logan, Lavallette Lasea, 1896, E. M. Portage, Pa.
- Lott, Charles Milford, 1895, M. E.
- Loveberry, Clarence, 1896, D. V. M., Columbus.
- Lovejoy, Ellis, 1885, E. M., Union Furnace, chemist and superintendent Columbus Brick and Terra Cotta Co.
- Lovejoy, Jesse R., 1884, B. Sc., Schenectady, N. Y., with General Electric Light Co.
- Luce, George Ernest 1897, LL. B., (A. B., Ohio Wesleyan University), Columbus.
- Luse, Clara E., 1897, B. Ph., (Mrs. Herbert T. Scott), Alexandria.
- Lusk, William Vinton, 1893, D. V. M., Ft. Wingate, New Mexico, veterinary surgeon, Ind. cavalry.

M

- MacGuire, Charles White, 1895, G. Ph., Toledo, student Toledo Medical College.
- Mackey, Ure LaVerne, 1893, M. E., (B. A., Wooster University), Allegheny, Pa., student in United Presbyterian Theological Seminary.
- Magly, Robert A., 1897, G. Ph., Columbus.
- Magruder, Leonard Anthony, 1895, B. Ph., 1896, LL. M.
- Maier, John Valentine, 1895, LL. B. (B. S., Northern Indiana Normal University).
- Malone, William Ruskin, 1885, B. A., Columbus, with New York Life Insurance Co.
- Manecke, Gilbert, 1897, LL. B., Fostoria.
- Manley, Rush Emmett, 1894, M. E.

- Marple, Charles Allen, 1885, B. Sc., Louisville, Ky., teacher of mathematics, male High School.
- Marquard, Frank Fred, B. L., 1896, C. E. Dayton.
- Marshall, George Sidney, 1894, B. Ph., 1897, LL. B., Columbus, attorney.
- Martin, Edwin Dunlevy, 1891, B. Ph., Lee Centre, Ill., teacher.
- Martin, George, 1897, E. E., Fredericksburg.
- Martin, Percy, 1892, M. E., with Ludw. Loewe & Co., Martinikenfelde, Kaiserin Augusta Allee, Berlin, N. W., Germany.
- Marvin, Charles Frederick, 1883, M. E. Washington, D. C., U. S. Weather Bureau.
- Mason, George F., 1890, G. Ph., Minneapolis, Minn., pharmacist.
- Masters, George Albert, 1886, C. E., Toledo.
- Mathers, John Harrison, 1895, B. Ph., Conover.
- Mathias, Frederick W., 1893, B. Sc., Toledo, teacher High School.
- Matson, George H., 1882, G. Ph., 93 Lexington ave., Columbus, professor of pharmacy, Ohio Medical University.
- Matson, William Edgar, 1896, E. E., Lynn, Mass.
- Mauer, George Clifford, 1892, D. V. M., Oak Harbor, veterinarian.
- Mays, James Wesley, 1897, B. Ph., South Point.
- McAllen, William Johnson, 1894, C. E., Pittsburg, Pa.
- McCarter, Edward Bancroft, 1892, B. A., 1894, LL. B., Columbus, attorney.
- McCarter, Flora, 1897, B. A., student at Bryn Mawr.
- McCarter, Robert Dale, Jr., 1895, M. E., Schenectady, N. Y., with Gen. Electric Co.
- McCormick, J. H., 1880, M. E. West Fulton street, Columbus, civil engineer.
- McCormick, William Francis, 1896, M. E., Columbus.
- McCulloch, George Elmer, 1891, B. Sc.
- McDowell, John Andrew, 1882, B. Sc., 949 Neil avenue, Columbus, secretary and treasurer of the Pleukharp Barrel Machine Co.
- McFadden, John Franklin, 1878, B. A., Columbus, attorney-at-law.
- McGregor, James Howard, 1894, B. Sc., New York, assistant in zoology, Columbia University.
- McGrew, John Alexander, 1895, C. E. Columbus engineer, with Columbus Central Street R. R.
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- McNary, George Bull, Jr., 1896, E. E., Toledo.
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